

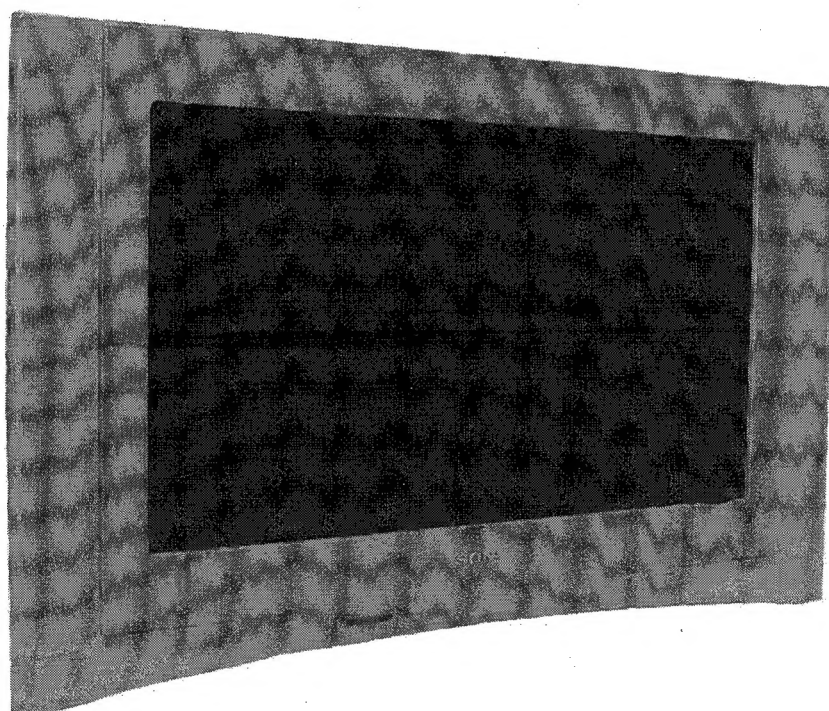
Self Diagnosis
Supported model

SERVICE MANUAL

AE-6BA CHASSIS

MODEL	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
KV-28FQ86B	RM-945	FR	SCC-Q83T-A	KV-32FQ86B	RM-945	FR	SCC-Q83U-A
KV-28FQ86E	RM-945	ESP	SCC-Q81W-A	KV-32FQ86E	RM-945	ESP	SCC-Q81X-A
				KV-32FQ86K	RM-945	OIRT	SCC-Q82M-A
				KV-32FQ86U	RM-945	UK	SCC-Q84T-A

FD Trinitron



RM-945

TRINITRON® COLOR TV
SONY®

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE ANODE CAP.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS, THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARKED Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÈCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

CAUTION

Lead Free Soldered Boards

The circuit boards listed below [Table 1] used in these models may have been processed using Lead Free Solder. The boards are identified by the LF logo located close to the board designation e.g. F1, H1 etc [see examples]. The servicing of these boards requires special precautions to be taken as outlined below.

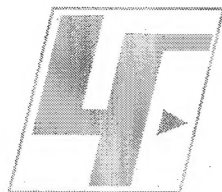
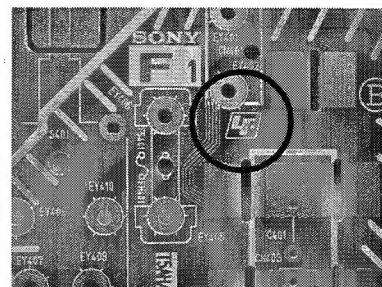


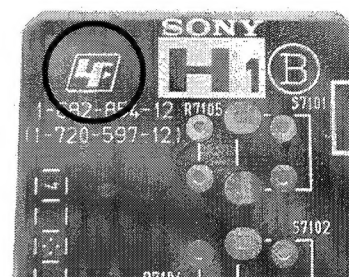
Table 1

Board	Function
A	Audio, Deflection, Tuner, Regulators, J,B Interface
B	Backend, Scanrate, LVDS, A_ Interface
C	R, G, B Out
D	Deflection
D2	Smart Mode Deflection
F1	Power Switch/Fuse/SIRCS/Standby LED
G	Power Supply
H1	Front AV Input/Headphone and Control Switches
J	AV Scart I/O Switching and Sockets
VM	Velocity Modulation

example 1



example 2



It is strongly recommended to use Lead Free Solder material in order to guarantee optimal quality of new solder joints. Lead Free Solder is available under the following part numbers :

Partnumber	Diameter	Remarks
7-640-005-19	0.3mm	0.25Kg
7-640-005-20	0.4mm	0.50Kg
7-640-005-21	0.5mm	0.50Kg
7-640-005-22	0.6mm	0.25Kg
7-640-005-23	0.8mm	1.00Kg
7-640-005-24	1.0mm	1.00Kg
7-640-005-25	1.2mm	1.00Kg
7-640-005-26	1.6mm	1.00Kg

Due to the higher melting point of Lead Free Solder the soldering iron tip temperature needs to be set to 370 degrees centigrade. This requires soldering equipment capable of accurate temperature control coupled with a good heat recovery characteristics.


For more information on the use of Lead Free Solder, please refer to <http://www.sony-training.com>

ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
B	B/G/H, D/K, I, L	GERMAN/NICAM Stereo	VHF : E2-E12, R1-R12, S01-S03, F02-F10 , B-Q UHF : E21-E69, F21-F69, B21-B69, R21-R69 CABLE TV : S01-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
E	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12, R1-R12, S01-S03, UHF : E21-E69, R21-R69 CABLE TV : S01-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
K	B/G/H, D/K	GERMAN/NICAM Stereo	VHF : E2-E12, R1-R12 , S01-S03 UHF : E21-E69, R21-R69 CABLE TV : S01-S20 HYPER : S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
U	I	NICAM Stereo	I UHF : B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)

Picture Tube	Flat Display FD Trinitron WIDE:	Sound output	
	Approx 71 cm (28 inches) (KV-28FQ86)	Right and Left speaker	2x20W (Music Power) 2x10W (RMS)
	Approx 82 cm (32 inches) (KV-32FQ86)	Sub Woofer	1x30W (Music Power) 1x15W (RMS)
Input/Output Terminals [REAR]		General Specifications	
1: 21-pin Euro connector (CENELEC standard)	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals.	Power Requirements	220 - 240V
		Power Consumption	130W/0.5W
2: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for RGB. Outputs of TV Video and Audio signals. (Monitor Out)	Dimensions	Approx 789x533x510mm (KV-28FQ86) Approx 910x586x586mm (KV-32FQ86)
		Weight	Approx 45kg (KV-28FQ86) Approx 64kg (KV-32FQ86)
3: 21-pin Euro connector	Inputs for Audio and Video signals. Inputs for S Video. Outputs of TV Video and Audio signals. (selectable), Smartlink Interface	Supplied Accessories	RM-945 Remote Commander (1) IEC designated R6 battery (2)
Phono Jacks	Output Connectors variable for Audio Signals	Other Features	100 Hz picture, Digital Plus, NexTVView, Teletext, Smartlink, BBE Digital, Dolby Virtual, PAP, ACI
Input/Output Terminals [FRONT]		Remote Control System : Infrared Control	
Headphone jack	stereo mini jack	Power requirements	3V dc 2 batteries IEC designation R6 (size AA)
Audio inputs	phono jacks		
Video inputs	phono jacks		
S Video input	4 pin DIN		
Design and specifications are subject to change without notice.			

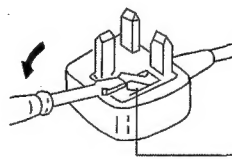
Model Name Item	KV-28FQ86B	KV-28FQ86E	KV-32FQ86B	KV-32FQ86E	KV-32FQ86K	KV-32FQ86U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF
PAP	ON	ON	ON	ON	ON	ON
RGB Priority	ON	ON	ON	ON	ON	ON
Woofer Box	ON	ON	ON	ON	ON	ON
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Scart 3	ON	ON	ON	ON	ON	ON
Front in (4)	ON	ON	ON	ON	ON	ON
Projector	OFF	OFF	OFF	OFF	OFF	OFF
Norm B/G	ON	ON	ON	ON	ON	OFF
Norm I	ON	OFF	ON	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	ON	OFF	ON	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Teletext	ON	ON	ON	ON	ON	ON
Nicam Stereo	ON	ON	ON	ON	ON	ON

WARNING (UK Models only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** rating. Should the fuse need to be replaced, use a **5AMP FUSE** approved by ASTA to **BS 1362**, ie one that carries the  mark.

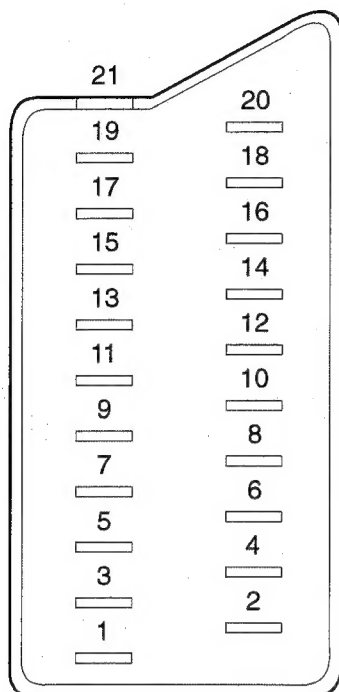
IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET.

When an alternative type of plug is used, it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5AMP FUSE** at the distribution board.



How to replace the fuse.
Open the fuse compartment with a screwdriver blade and replace the fuse.

21 pin connector

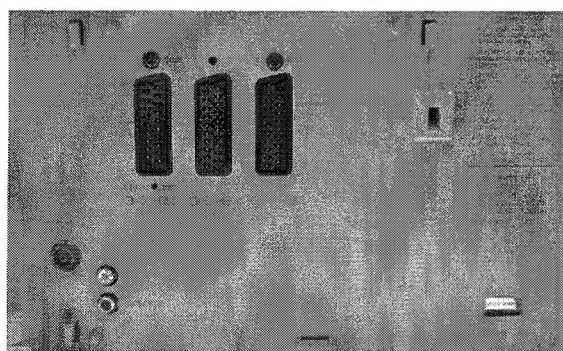


Pin No	1	2	3	Signal	Signal level
1	○	○	○	Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2	○	○	○	Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3	○	○	○	Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4	○	○	○	Ground (audio)	
5	○	○	○	Ground (blue)	
6	○	○	○	Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7	○	●	●	Blue input	0.7 +/- 3dB, 75 ohms positive
8	○	○	○	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedance : More than 10K ohms Input capacitance : Less than 2nF
9	○	○	○	Ground (green)	
10	○	○	○	Open	
11	○	●	●	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	○	○	○	Open	
13	○	○	○	Ground (red)	
14	○	○	○	Ground (blanking)	
15	○	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
	-	○	○	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	○	●	●	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedance : 75 ohms
17	○	○	○	Ground (video output)	
18	○	○	○	Ground (video input)	
19	○	○	○	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	○	-	-	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
	-	○	○	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	○	○	○	Common ground (plug, shield)	

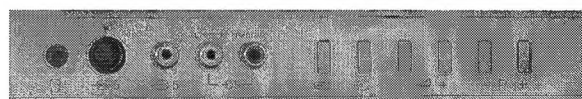
○ Connected

● Not Connected (open) * at 20Hz - 20kHz

Rear Connection Panel



Front Connection Panel



S-Video socket

S Video socket pin configuration		
Pin No	Signal	Signal Level
1	Ground	-
2	Ground	-
3	Y (S signal) input	1V +/- 3dB 75ohm, positive Sync. 0.3V -3 +10dB
4	C (S signal) input	0.3V +/- 3dB 75ohm, positive Sync.

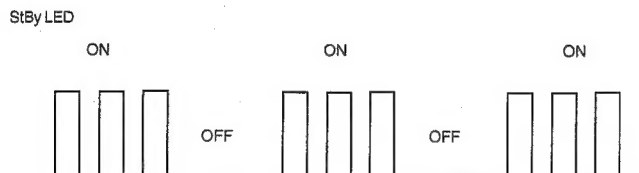
AE-6BA SELF DIAGNOSTIC SOFTWARE

The identification of errors within the AE-6BA chassis is triggered in one of two ways :- 1: Busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy (Failure to do so will report with a continuous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED (Series of flashes which must be counted) See table 1, non fatal errors are reported using this method. Each time the software detects an error it is stored within the NVM. See Table 2.

Table 1

Error Message	LED Code
No error	00
Reserved	01
OCP (Over Current Protection)	02
Over Voltage Protection	03
No Vertical Sync	04
IKR Error at power on	05
IIC bus clock and/or data lines low at power on	06
NVM no IIC bus acknowledge at power on	07
Horizontal Protection	08
Tuner no acknowledge at power on	09
Sound Processor Error	10
Reserved	11
Scanrate Error	12
DAC Error	13
Backend Error	14
Dynamic Convergence Error	15
PIP Error	16

Flash Timing Example : e.g. error number 3



How to enter into Table 2

1. Turn on the main power switch of the TV set.
2. Program Remote Commander for Operation in Service Mode. [See Page 22].
3. Press 'AUX/VIDEO' 'AUX/VIDEO' > 'MENU' on the Remote Commander.
4. Using the Remote Commander, Scroll to the 'Error' item using the down arrow key, then press the right arrow key.
5. The following table will be displayed indicating the error count.

Table 2

Error monitor		
WORKING TIME:	(Hours:Minutes)	82:33
Error counters:		
E02: OCP		0
E03: OVP		0
E04: NO V SYNC		0
E05: IKR		0
E06: IIC		0
E07: NVM		0
E08: H PROT		0
E09: TUNER		0
E10: SOUND		0
E11: 9 VOLTS		0
E12: SCANRATE		0
E13: 3DCOMB		0
E14: BACKEND		0
E15: DYNCON		0
E16: HIGH VOLTAGE		0
E17: AVSWITCH		0
E18: CHROMA DEC		0
E19: FRCA		0
E20: PJ ENG		0
E21: DAC		0
E24: SPEAKER PROT		0
E25: MEMORY STICK		0
Select: ▲ ▼ Previous Menu: ◀		

Note: To clear the error count data press '80' on the Remote commander.

Switching On the TV and Automatically Tuning

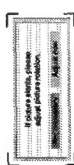
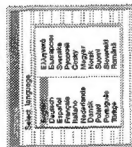
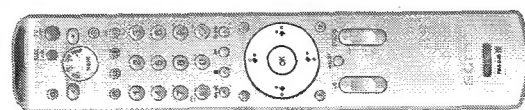
- 1 Connect the TV plug to the mains socket (220-240V AC, 50Hz). The first time that the TV set is connected, it is usually turned on. If the TV is off, press the **on/off** button on the TV set to turn on the TV.

2 Press the **↑**, **↓**, **←**, or **→** buttons on the remote control to select your language, then press the **OK** button to confirm your selection. From now on all the menus will appear in your chosen language.

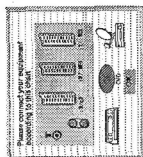
3 Because of the earth's magnetism, the picture might slant. The **Picture Rotation** menu allows you to correct the picture slant if it is necessary.

- a) If it is not necessary, press **OK** to select **Not necessary**.
b) If it is necessary, press \blacktriangleleft or \blacktriangleright to select **Adjust now**, then press **OK** and correct any slant of the picture between -5 and $+5$ by pressing \uparrow or \downarrow . Finally press **OK** to store.

continued...



4 A diagram will appear showing you how to connect a wide range of equipment to your TV set. Follow the instructions and finally press the **OK** button to remove the diagram and continue the automatic process.




A After the automatic tuning process has finished and any optional equipment has been connected, we recommend you follow the instructions explained on the section "Connection Guide" on page 15 to get the optimum settings related to the optional equipment.

- 5** The Auto Tuning menu appears on the screen. Press the OK button to select Yes.




- 6** The TV starts to automatically search and store all available broadcast channels for you.



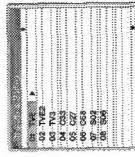
 This procedure could take some minutes. Please be patient, and do not press any buttons, otherwise automatic tuning will not be completed.

1 In some countries the TV Broadcaster installs the channels automatically (ACI system). In this case, the TV Broadcaster sends a menu in which you can select your city by pressing the **▼** or **▲** button and **OK** to store the channels.



 If no channels were found during the auto tune process, a message appears automatically on the screen asking you to connect the aerial. Check the aerial connection (refer to page 7). Press the **OK** button to restart the auto tuning process.

- 7** After all available channels are captured and stored, the **Programme Sorting** menu automatically appears on the screen enabling you to change the order in which the channels are stored.



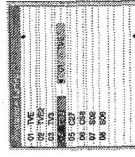
- a) If you wish to keep the broadcast channels in the tuned order, go to step 8.

- b) If you wish to store the channels in a different order:**

- 1 Press the **↓** or **↑** button to select the programme number with the channel (TV Broadcast) you wish to move. Press the **➡** button.

- 2** Press the **↓** or **↑** button to select the new programme number position for your selected

- 3** Repeat steps b)1 and b)2 if you wish to change the order of the other channels.

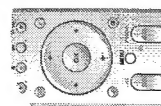


- 8** Press the **MENU** button to remove the menu from the screen

Your TV is now ready for use

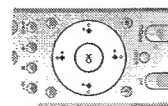
Introducing and Using the Menu System

1 Your TV uses an On-Screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:



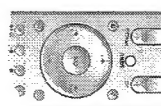
1 To switch on the menu screens:

Press the **MENU** button to switch the first level menu on.



2 To navigate through the menus:

- To highlight and select the desired menu or option, press **↵** or **⬆**.
- To enter the selected menu or option, press **OK** or **⬆**.
- To return to the last menu or option, press **OK** or **⬆**.
- To alter the settings of your selected option, press **↵/⬆/⬅** or **⬆**.
- To confirm and store your selection, press **OK**.



3 To switch off the menu screens:

Press the **MENU** button to remove the menu from the screen.

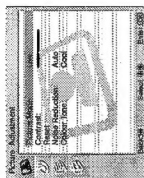
The Picture Adjustment Menu



1 The "Picture Adjustment" menu allows you to alter the picture settings.

To do this:

Press the **MENU** button and then press **OK** to enter this menu. Next press **↵** or **⬆** to select the desired option and press **OK**. Finally read the instructions below on how to operate each option.



Picture Mode This option allows you to customise the Picture Mode based on the programme you are watching. After selecting this option press **OK**. Next press **↵** or **⬆** repeatedly to select:

Personal (for individual settings).

Live (for live broadcast programmes, DVD and Digital Set Top Box receivers)

Movie (for films).

Once you have selected your desired option, press **OK** to store.

"Brightness", "Colour" and "Sharpness" level of "Live" and "Movie" mode are fixed in the factory to get the best picture quality.



Contrast Press **↵** or **⬆** to reduce or enhance picture contrast. Next press **OK** to store.

Brightness Press **↵** or **⬆** to darken or brighten the picture. Next press **OK** to store.

Colour This option only appears for alteration if "Picture Mode" is set to "Personal".

Press **↵** or **⬆** to decrease or to increase color intensity. Next press **OK** to store.

Hue This option only appears for alteration if "Picture Mode" is set to "Personal".

Press **↵** or **⬆** to decrease or to increase the green tones. Next press **OK** to store.

Sharpness Press **↵** or **⬆** to soften or to sharpen the picture. Next press **OK** to store.

Reset Press **OK** to reset the picture to the factory preset levels.

Noise Reduction Press **↵** or **⬆** to automatically reduce the snowy picture that may be visible in the broadcast signal. However, it can be modified by pressing **↵** or **⬆** to select **Off**, **Low**, **Mid** or **High**. Finally press **OK** to store.

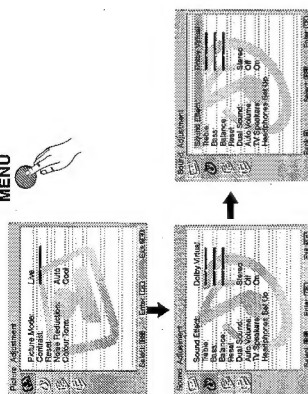
Colour Tone This option allows you to alter the tint of the picture. After selecting this option press **↵**. Next press **↵** or **⬆** repeatedly to select: **Warm** (gives the white colours a red tint), **Normal** (gives the white colours a neutral tint), **Cold** (gives the white colours a blue tint). Next press **OK** to store.

The Sound Adjustment Menu

1 The "Sound Adjustment" menu allows you to alter the sound settings.

To do this:

Press the **MENU** button and press **↓** to select **Sound**, then press **OK** to enter this menu. Next press **↓** or **↑** to select the desired option and press **OK**. Finally read the instructions below on how to operate each option.



Sound Effect
This option allows you to customise the Sound Effect. After selecting this option press **OK**. Next press **↓** or **↑** repeatedly to select:

Off
(Flat response).

Natural
(Enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"™).

Dynamic
("BBE High Definition Sound system"™ intensifies clarity and presence of sound for better intelligibility and musical realism).

Dolby**
(Dolby Virtual, simulates the sound effect of "Dolby Surround Pro Virtual Logic").

Once you have selected your desired option, press **OK** to store.

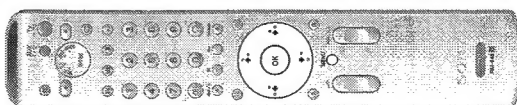
Treble
Press **←** or **→** to decrease higher-frequency sounds. Next press **OK** to store.

Bass
Press **←** or **→** to decrease or to increase the lower-frequency sounds. Next press **OK** to store.

Balance
Press **←** or **→** to emphasise the left or the right speaker. Next press **OK** to store.

Reset
Press **OK** to reset the sound to the factory preset levels. Next press **OK** to store.

Dual Sound
• For a Stereo broadcast:
Press **↓** or **↑** to select **Stereo** or **Mono**. Next press **OK** to store.
• For a bilingual broadcast:
Press **↓** or **↑** to select **Mono** (for mono channel if available), **A** (for channel 1) or **B** (for channel 2). Next press **OK** to store.



PAP (PICTURE AND PICTURE)

1 PAP divides the screen into two to watch two pictures in format 4:3 simultaneously.

Switching PAP on and off

1 Press **□** to display PAP.

1 One of the screens will be framed to indicate that this is the active screen. It means that when you want to select the PAP source, you will be doing it in the active screen.

2 Press **□** again to remove PAP.

1 On the screen a banner appears guiding you on how to operate PAP. This banner will disappear after some seconds but it can always be displayed again by pressing the **□** button.

Changing the active screen

1 This is only possible if the Media Selector is set to TV.

To change the active screen (framed), press the **←** or **→** buttons.

Selecting PAP source

1 Selecting a TV channel:

Press the **←** button to select the left screen as the active screen. Next press the number buttons or **PROG +/-** to select a TV channel.

1 Video input signals can not be displayed on the left screen.

2 Selecting an input source:

Press the **→** button to select the right screen as the active screen. Next press repeatedly the **□** button to show the input signal of the connected equipment on right screen of the TV. For more details on which input symbol you wish to choose, please see section "Viewing pictures from equipment connected to the TV" on page 23.

1 RF signal (TV broadcast channels) can not be displayed on the right screen.

Selecting the sound

The sound of the active screen (framed) always comes from the TV speakers.

Besides that, you can listen to the active screen as well as the non active screen via headphones.

To do this:

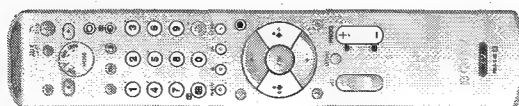
With the PAP switched on, refer to the section "The Sound Adjustment Menu", select "Headphones Set Up" and set the option "□ PAP Sound" according your preference. For details see page 13.

1 In PAP (picture and picture) mode, the output from the Scart **□-2/□-2** is fixed to the right picture.

Teletext

1 Teletext is an information service transmitted by most TV stations. The index page of the teletext service (usually page 100) gives you information on how to use the service. To operate teletext, use the remote control buttons as indicated below.

2 Teletext errors may occur if you use a channel (TV Broadcast) with a weak signal.



To switch on Teletext :

- 1 Select the broadcast channel which carries the teletext service you wish to view.
- 2 Press the **TEXT** button once to enter Picture and Text (P&T) mode. The screen is divided into two with the Text display on the left and the TV channel in the bottom right corner.
- 3 If you wish to view the Text in full screen mode, press the **TEXT** button a second time.



To select a Teletext page:

- Input the 3 digit page number, using the numbered buttons.
- If you make a mistake, retype the correct page number.
 - If the counter on the screen continues searching, it is because the page is not available. If this is the case, input another page number.

To access the next or preceding page:

Press **PROG +** (▲) or **PROG -** (▼).

To freeze a teletext page:

Press **FREEZE** button. Press again to cancel the freeze.

To reveal concealed information (e.g. answer to a quiz):

Press **REVEAL** button. Press again to conceal the information.

To select a sub page:

A teletext page may consist of several sub pages. In this case, one or more arrows appear next to the page number and an information box is displayed at the bottom of the screen showing the number of sub pages contained in this page. As soon as sub pages are available, they start to automatically appear. If you want to stop the show and select your desired sub page, press **DOWN** or **UP** repeatedly.

To Switch Off Teletext:

Press **OFF** button.

Fastext

Fastext service lets you access Teletext pages with one button push.

1 When you are in Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the teletext page. Press the appropriate coloured button (red, green, yellow or blue) to access the page corresponding to your menu choice.

Remote Control Configuration for VCR or DVD

1 In it's default condition this remote control will operate the basic functions of this Sony TV, Sony DVDs and most Sony VCRs. To control VCRs and DVDs of other manufacturers (and some Sony VCR models), the remote control needs to be configured.

To do this:

- Before you start, look up the 3 digit code for your brand of DVD or VCR from the list below. On those brands that have more than one code, enter the first code number.
- Sony will endeavour to update the software according to market changes. Therefore, please refer to the code table included with the remote control for latest code set.
- A small label is added inside the battery door to allow you to record your brand codes.

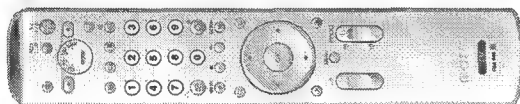


fig. 1

- 1 Press and hold the **MODE** button of the remote control for approximately 10 seconds until the green DVD and VCR light of the Media Selector starts flashing (see fig. 1).



fig. 2

- 2 While the VCR and DVD lights are flashing, enter all three digits of code for your brand of VCR or DVD (see the list below) using the numeric buttons on the remote control (see fig. 2).

fig. 3

- 3 If your selected code is entered correctly, the VCR or DVD green light (according to your selection) will be lit momentarily (see fig. 3) otherwise repeat all the above steps.



- 3 Turn on your VCR or DVD and check that the main functions work.

4 If your device is not working or some of the functions do not work, please check that you entered the correct code set or try the next code listed against the brand.

- Not all brands are covered and not all models of every brand may be covered.

Always remember to press the **MODE** button until the green light illuminates according to the equipment you want to operate with this remote control: VCR, TV or DVD.

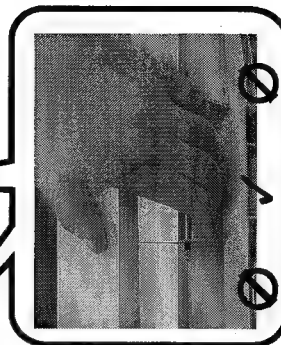
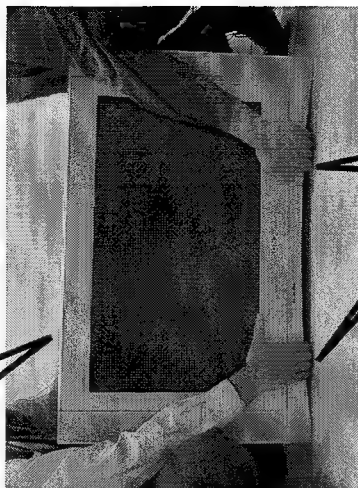
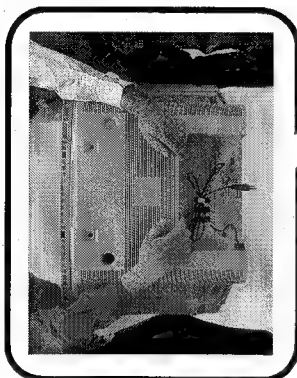
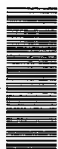
VCR Brand List		DVD Brand List	
Brand	Code	Brand	Code
SONY (VHS)	301, 302, 303, 308, 309, 362	SONY	001, 025, 030, 036, 037, 038, 039, 040, 041, 042, 043, 044, 053, 054, 055
SONY (BETA)	303, 307, 310	AIWA	021
SONY (DV)	304, 305, 306	AKAI	032
AIWA	325, 331, 351	DENON	018, 027, 020, 002
AKAI	326, 329, 330	GRUNDIG	009, 028, 023, 024, 016, 003
DAEWOO	342, 343	HITACHI	025, 026, 015, 004, 035
GRUNDIG	358, 355, 360, 361, 320, 351, 366	JVC	006, 017
HITACHI	327, 333, 334	KENWOOD	008
JVC	314, 315, 322, 344, 352, 353, 354, 348, 349	LG	015, 014, 034
LG	332, 338	LOEWE	009, 028, 023, 024, 016, 003
LOEWE	358, 355, 360, 361, 320, 351	MATSUI	013, 016
MATSUI	356, 357	ONKYO	022, 033
ORION	328	PANASONIC	018, 027, 020, 002, 045, 046, 047
PANASONIC	321, 323	PHILIPS	009, 028, 023, 024, 016, 003, 031
PHILIPS	311, 312, 313, 316, 317, 318, 358, 359, 363, 364	PIONEER	004, 050, 051, 052
SAMSUNG	339, 340, 341, 345	SAMSUNG	011, 014
SANYO	335, 336	SANYO	007
SHARP	324	SHARP	019, 027
THOMSON	319, 350, 365	THOMSON	012
TOSHIBA	337	TOSHIBA	003, 048, 049
		YAMAHA	018, 027, 020, 002

Technical Specifications

TV system: I	Rear Terminals • AV1 21-pin SCART connector (CENELEC standard) including audio/video input, RGB input, TV audio/video output.	Sound Output: 2 x 20 W (music power) 2 x 10 W (RMS) Wooler: 30 W (music power) 15 W (RMS)
Colour system: PAL SECAM, NTSC 3.58, 4.43 (only Video In)	• AV2 21-pin SCART connector (CENELEC standard) including audio/video input, RGB input, monitor audio/video output.	Power Consumption: KV-28FQ86U: 130 W KV-32FQ86U: 130 W
Channel Coverage: UHF: B21-B69	• AV3 21-pin SCART connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output and SmartLink interface.	Standby Power Consumption: 0.5 W
Picture Tube: Flat Display FD Trinitron WIDE: KV-28FQ86U: 28" (approx. 71cm, measured diagonally) KV-32FQ86U: 32" (approx. 82cm, measured diagonally)	• AV3/AV3 21-pin SCART connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output and SmartLink interface.	Dimensions (w x h x d): KV-28FQ86U: approx. 789 x 533 x 510 mm. KV-32FQ86U: approx. 910 x 586 x 586 mm.
	• G- audio outputs (Left/Right) - phono jacks	Weight: KV-28FQ86U: approx. 45 Kg. KV-32FQ86U: approx. 64 Kg.
	Front Terminals • 4 S Video input - 4 pin DIN. • 4 video input - phono jack. • 4 audio input - phono jacks. • 4 headphones jack.	Accessories supplied: • 1 Remote Control (RM-945) • 2 Batteries (IEC designated, AA size)
		Other features: • 100 Hz picture, Digital Plus. • Teletext, Fasttext, TOPtext. • NextTVView. • SmartLink. • TV system autodetection. • Dolby Virtual. • BBE Digital. • NICAM. • PAP. • AC1 (Auto Channel Installation).
		Optional accessories: • Stand especially designed for this TV KV-28FQ86U: SU-28FQ3. KV-32FQ86U: SU-32FQ3.

GB

Lifting the TV Set



Design and specifications are subject to change without notice.

Troubleshooting

④ Here are some simple solutions to problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark) and no sound.	<ul style="list-style-type: none"> • Check the aerial connection. • Plug the TV in and press the 0 button on the front of the TV. • If the standby indicator 0 is on, press TV I/O button on the remote control.
Poor or no picture (screen is dark), but good sound.	<ul style="list-style-type: none"> • Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (see page 11).
No picture or no menu information from equipment connected to the Scart connector.	<ul style="list-style-type: none"> • Check that the optional equipment is on and press the 0 button repeatedly on the remote control until the correct input symbol is displayed on the screen (see page 23).
Good picture, no sound.	<p>Press the △ + button on the remote control.</p> <p>Check that "TV Speakers" is "On" in the "Sound Adjustment" menu (see page 13).</p> <p>Check that headphones are not connected.</p>
No colour on colour programmes.	<ul style="list-style-type: none"> • Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to factory settings (see page 11).
When you switch on the TV the last channel you were watching before switching the TV off does not appear.	<ul style="list-style-type: none"> • This is not a malfunction. Press the number buttons on the remote control to select the desired channel.
Distorted picture when changing programmes or selecting teletext.	<ul style="list-style-type: none"> • Turn off any equipment connected to the Scart connector on the rear of the TV.
Wrong characters appear when viewing NexTVView.	<ul style="list-style-type: none"> • Use the menu system to enter the "Language" menu (see page 16) and select the same language that NexTVView is broadcast in.
Picture slanted.	<ul style="list-style-type: none"> • Using the menu system, select the "Picture Rotation" option in the "Features" menu to correct the picture slant (see page 15).
Snowy picture when viewing a TV channel.	<ul style="list-style-type: none"> • Using the menu system, select the "Manual Programme Preset" menu and adjust Fine Tuning (AFT) to obtain better picture reception (see page 18). • Using the menu system, select the "Noise Reduction" option in the "Picture Adjustment" menu and select "Auto" to reduce the noise in the picture (see page 11).

continued...

Problem

Solution

No unscrambled picture whilst viewing an unscrambled channel with a decoder or a Set Top Box connected through the Scart connector **0-3/0-2**.

0, 1, 2, 3 and **0** buttons do not work in PAP mode.

- PAP navigation is only possible in TV mode, please check that Media Selector is set to TV.

Remote control does not function.

- Check that the Media Selector on the remote control is set to the device you are using (VCR, TV or DVD).
- If the remote control does not operate the VCR or DVD even when the Media Selector has been set correctly, enter the necessary code set **00** explained on page 24.
- Replace the batteries.

The standby indicator **0** on the TV flashes.

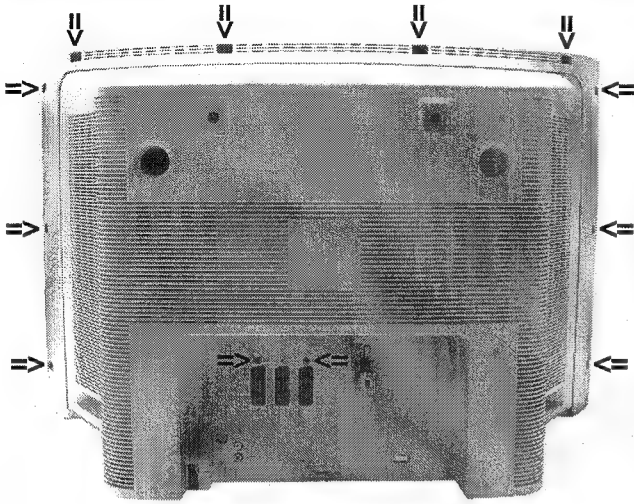
- Contact your nearest Sony service centre.



• If you continue to experience problems, have your TV serviced by qualified personnel.
• Never open the casing yourself.

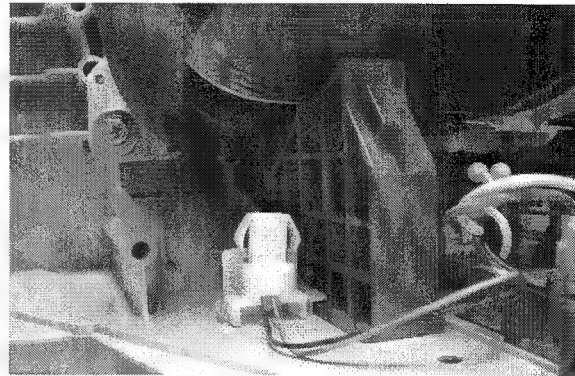
SECTION 2 DISASSEMBLY

2-1. Rear Cover Removal



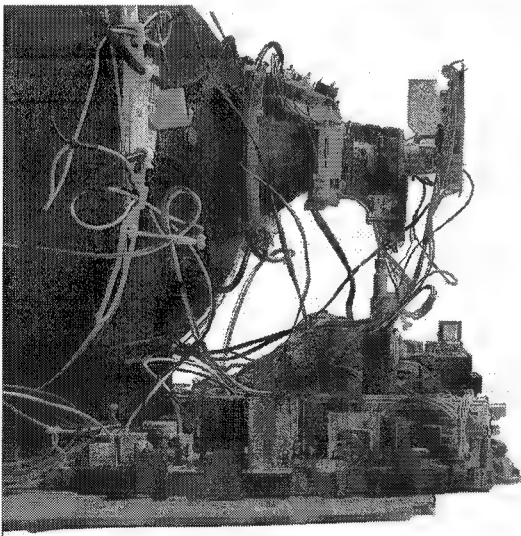
Remove the rear cover fixing screws indicated and pull the rear cover backwards away from the set. Take care when removing the rear cover not to damage the speaker cable [Disconnect the speaker connector] a speaker is fitted inside the rear cover.

2-2. Speaker Connector Disconnection

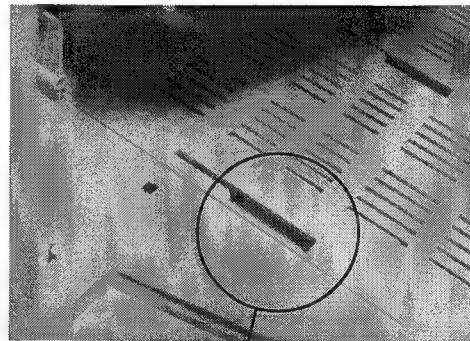


Before completely removing the rear cover disconnect the speaker connector which is located on the inside of the set.

2-3. Chassis Removal and Refitting

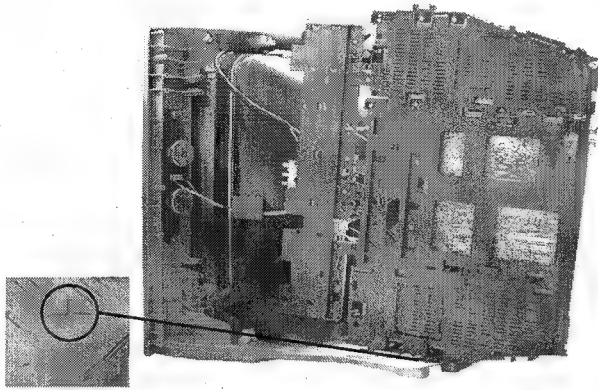


To remove lift the main bracket rear slightly and slide the chassis away from the beznet. Ensure that the interconnecting leads are released from their purse locks to prevent damage being caused.



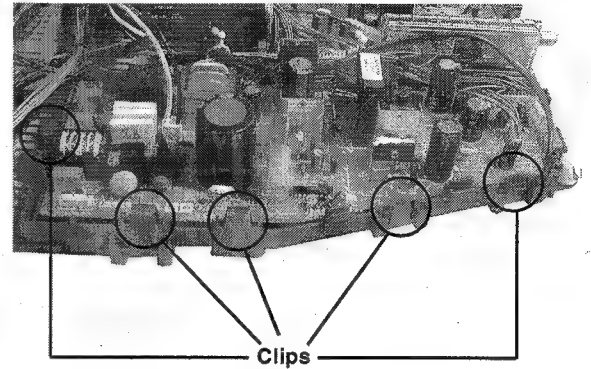
When refitting the chassis ensure that the main bracket is located in the beznet guide slots before sliding the chassis forwards. Refit the inter-connecting leads in their respective purse locks.

2-4. Service Position



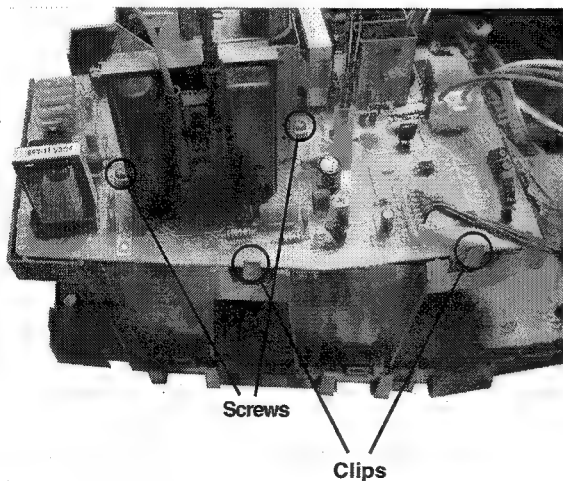
To place the chassis in the service position, insert the main bracket firmly into the T-slot located on the left corner of the beznet as indicated (see inset). To gain access to the underside of the boards follow the instructions on page 17. [Removal and Replacement of the main bracket bottom plates].

2-5. G Board Removal



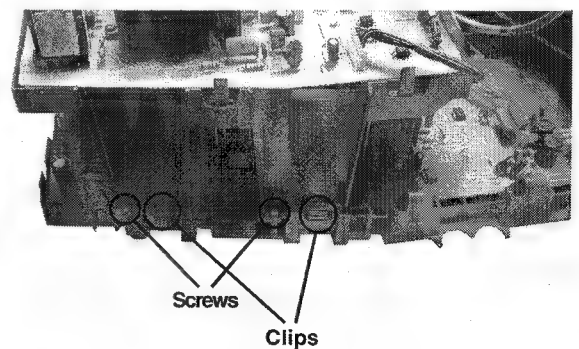
To remove the G Board remove the two screws from the middle of the board, release the clips circled and ease the board gently away from the support bracket.

2-6. D2 Board Removal



To remove the D2 board remove the two screws circled, release the clips circled and ease the board gently away from the support bracket.

2-7. D Board Removal

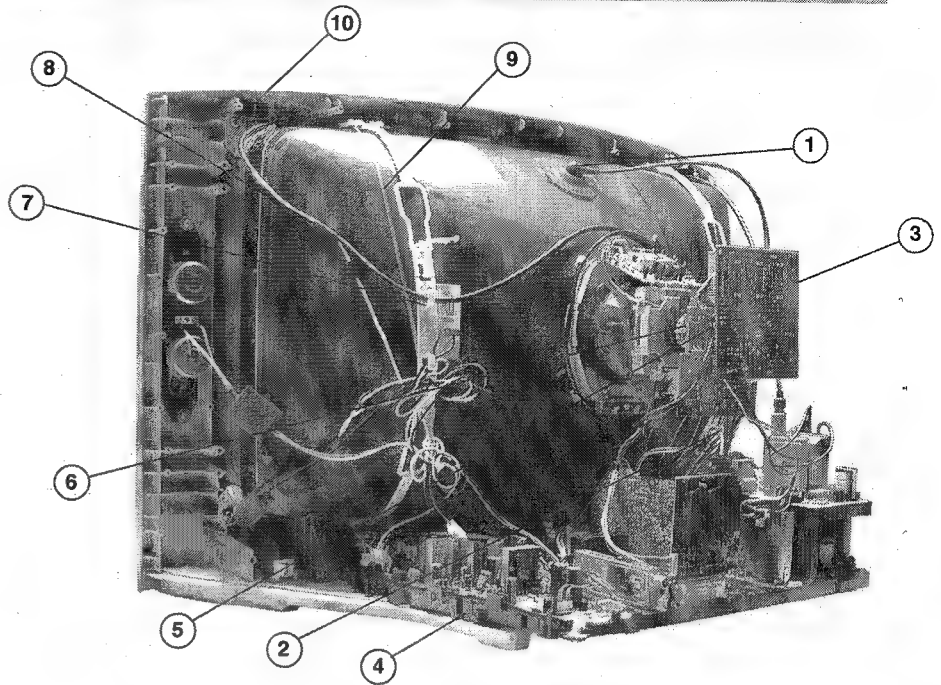
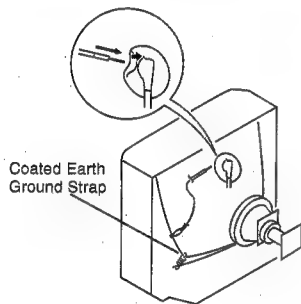


To remove the D board first remove the D2 bracket by removing the two screws circled and releasing the four clips (two on each side of the bracket). The D board can then be removed using the same method as the G board but with the necessity to remove only one screw from the middle of the D board.

2-8. Picture Tube Removal

WARNING: BEFORE REMOVING THE ANODE CAP

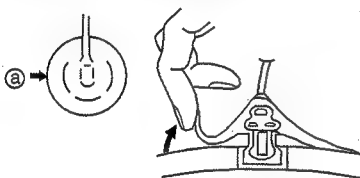
High voltage remains in the CRT even after the power is disconnected. To avoid electric shock, discharge CRT *before* attempting to remove the anode cap. Short between anode and CRT coated earth ground strap.



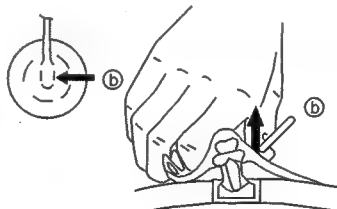
1. Discharge the anode of the CRT and remove the anode cap.
2. Unplug all interconnecting leads from the Deflection yoke, neck assy, degaussing coils and CRT grounding strap.
3. Remove the C Board from the CRT.
4. Remove the chassis assembly.
5. Loosen the Neck assembly fixing screw and remove.
6. Loosen the Deflection yoke fixing screw and remove.
7. Place the set with the CRT face down on a cushion and remove the Degaussing Coil holders.
8. Remove the Degaussing Coils.
9. Remove the CRT grounding strap and spring tensioners.
10. Unscrew the four CRT fixing screws [located on each CRT corner] and remove the CRT.
[Take care not to handle the CRT by the neck.]

Removal of the Anode-Cap

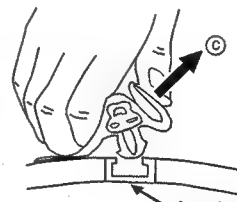
REMOVAL PROCEDURE.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow (a)



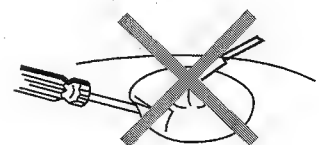
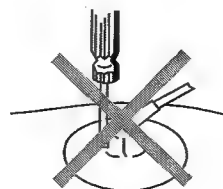
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b)



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

How to handle the Anode-Cap

1. To prevent damaging the surface of the anode-cap do not use sharp materials.
2. Do not apply too great a pressure on the rubber, as this may cause damage to the anode connector.
3. A metal fitting called a shatter hook terminal is fitted inside the rubber cap.
4. Do not turn the rubber foot over excessively, this may cause damage if the shatter hook sticks out.

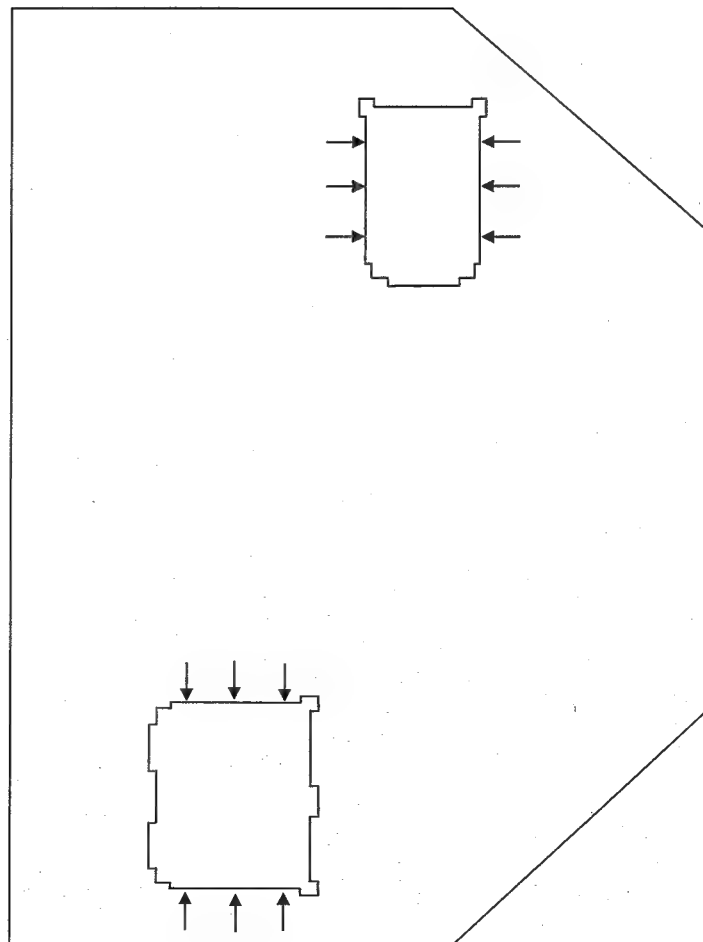



REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET BOTTOM PLATES.

(1) REMOVING THE PLATES

In the event of servicing being required to the solder side of the printed wiring boards, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations indicated by the arrows.

Note : There are 2 plates fitted to the main bracket. Only remove the necessary plate to gain access to the printed wiring board.

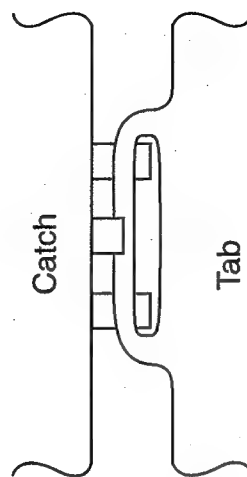


 For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

Please note that the plates need to be rotated 180 degrees from their cut position to allow the tabs to be fitted into their catch positions.



SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings :

Contrast normal

Brightness normal

Carry out the adjustments in the following order :

- 3-1. Beam Landing.
- 3-2. Convergence.
- 3-3. Focus.
- 3-4. White Balance.

Note : Test equipment required.

1. Color bar/pattern generator.
2. Degausser.
3. Oscilloscope.
4. Digital multimeter.

3-1. Beam Landing

Preparation :

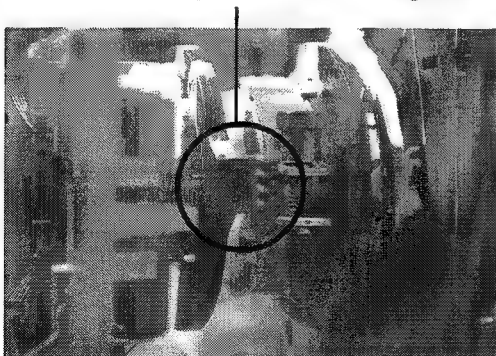
1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
2. Switch on the TV set's power and degauss with a degausser.

(1) Adjustment of Correction Magnet for Y-Splitting Axis.

1. Input a crosshatch signal from the pattern generator.
2. Set the Picture control to minimum and confirm that the Brightness control is set to normal.
3. Position the neck assembly as indicated in Fig.3-2.
4. Loosen the deflection yoke fixing screw.
5. Move the deflection yoke as far forward as is possible.
6. Adjust the upper and lower pin symmetrically by opening or closing the Y-splitting axis correction magnets located on the neck assembly. [See Fig 3-3]
7. Return the deflection yoke to its original position and re-tighten its fixing screw.

Fig.3-1

Y-splitting axis correction magnet



Caution :

High voltages are present on the Deflection yoke terminals - take care when handling the Deflection yoke whilst carrying out adjustments.

(2) Landing

Note : Before carrying out the following adjustments adjust the magnets as indicated [See Fig.3-4].

1. Input a crosshatch signal from the signal generator.
2. Rough-adjust the focus and horizontal convergence.
3. Switch from the crosshatch pattern to an all-red pattern.
4. Move the deflection yoke backwards and adjust with the purity magnet so that the red is at the centre and it aligns symmetrically [See Fig.3-5].
5. Move the deflection yoke forward to the point where the entire screen just becomes red [Mark its position].
6. Move the deflection yoke further forward until the screen just changes colour at the edges. [Mark its position]
7. Position the deflection yoke between the two marks indicated above.
8. Input a crosshatch pattern from the pattern generator and rotate the deflection yoke so that the horizontal lines are parallel with the top and bottom of the screen.
9. When the position of the deflection yoke has been determined, fasten it with its fixing screw.
10. Switch the pattern generator to green then blue and confirm the purity.
11. If the beam does not land correctly in all the corners of the screen, use disk magnets to correct it. [Confirm the corner landing for green and blue]

Fig.3-2

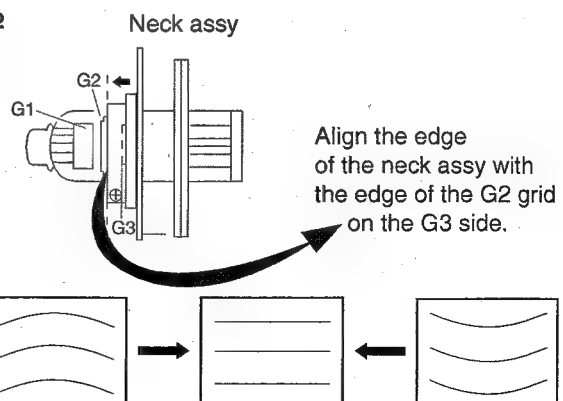
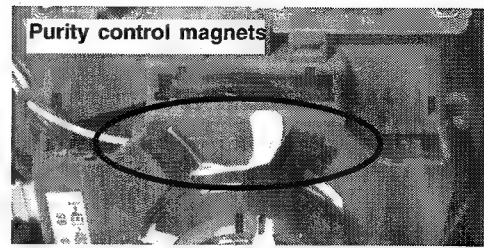
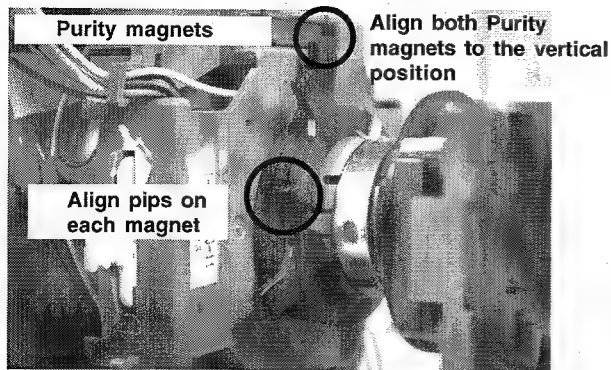


Fig.3-3

Fig.3-4



3-2. Convergence

(1) Screen centre convergence [Static convergence]

1. Input a dot pattern signal from the pattern generator.
2. Normalize the picture setting.
3. [Moving vertically], adjust the V.STAT magnet so that the vertical red, green and blue dots coincide at the centre of the screen.

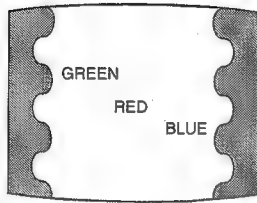
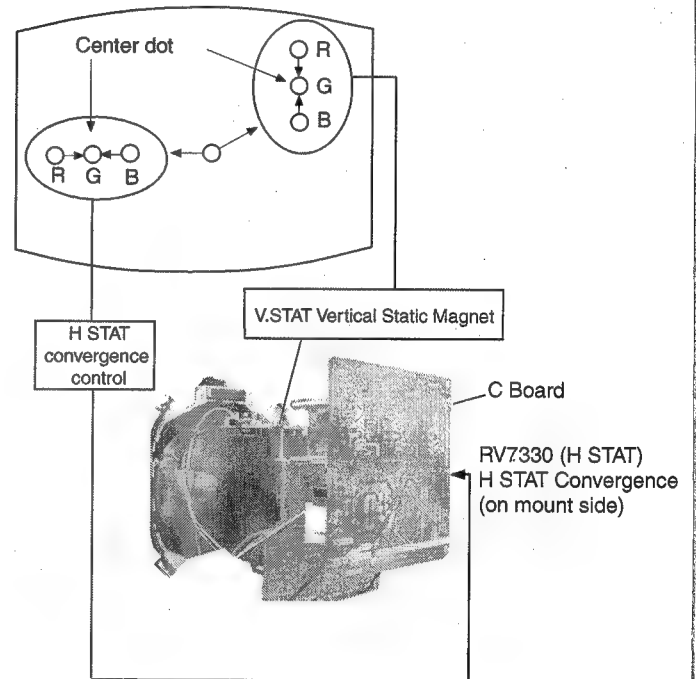
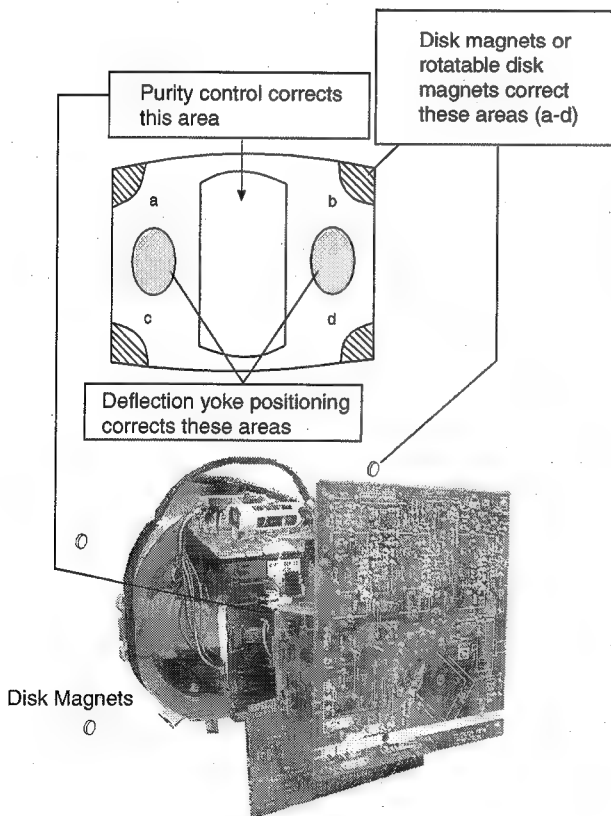
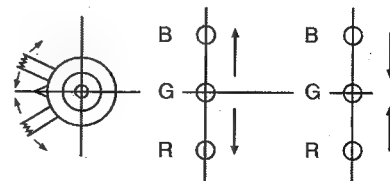


Fig.3-5



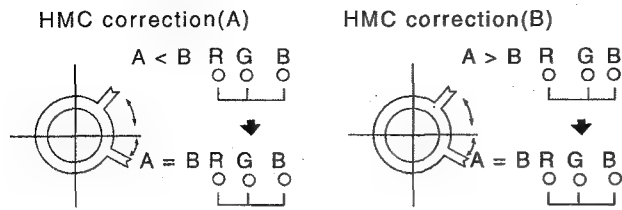
By opening or closing the V.STAT magnet, the red green and blue dots move in the direction indicated below.



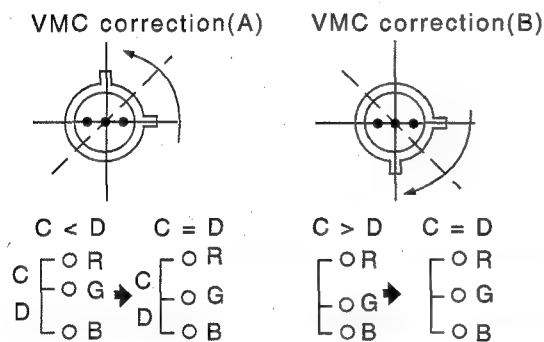
Note: Do not adjust the H.STAT by rotating the V.STAT magnets as this can affect the focus setting.

4. Correction for HMC [Horizontal mis-convergence] and VMC [Vertical mis-convergence] by using the BMC [Hexapole] magnet.

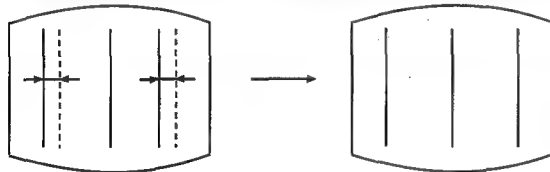
- a). HMC correction by BMC [Hexapole] magnet and movement of the electron beam.



- b). VMC correction by BMC [Hexapole] magnet and movement of the electron beam.

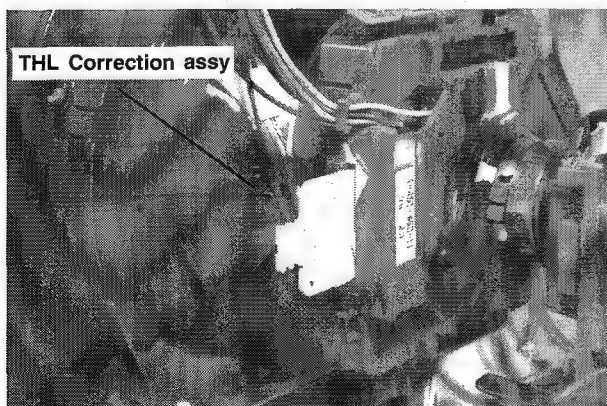


HAMP Adjustment

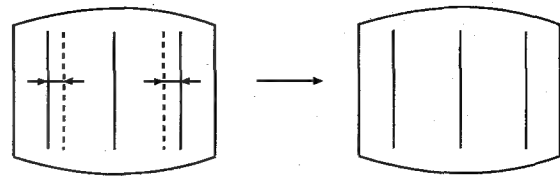


Adjust the HAMP using HAMPL and HAMPR registers in the Dynamic Convergence section of the service menu.

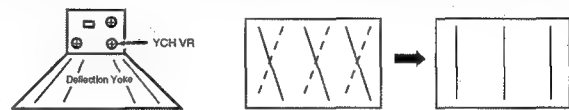
HTIL Adjustment



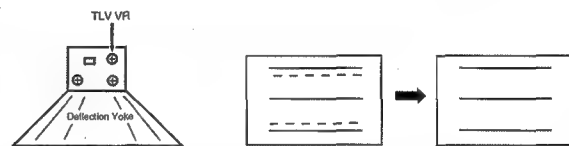
HTIL correction can be performed by adding a THL correction assembly to the Deflection yoke.



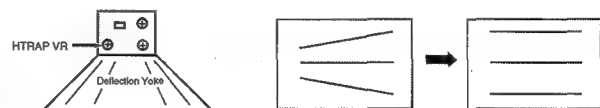
YCH Adjustment



TLV Adjustment

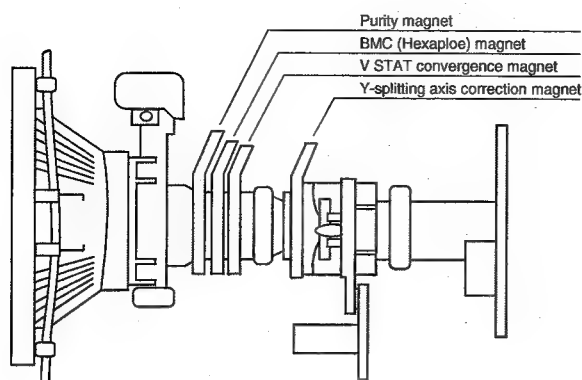


H-TRAP Adjustment

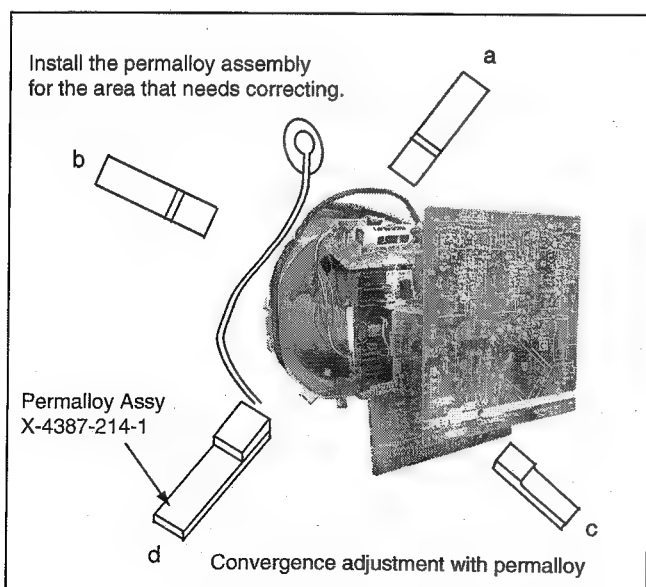
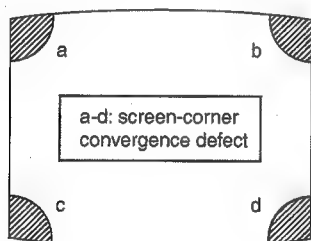


The H-TRAP should not be adjusted unless absolutely necessary as it affects the TLV settings.

Layout of each control

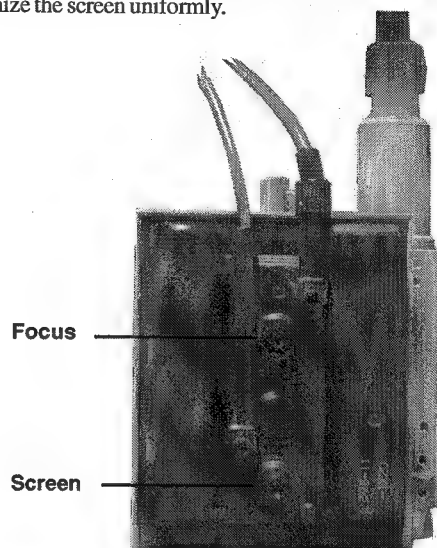


Note : If you are unable to adjust the corner convergence properly, this can be corrected with the use of permalloy magnets.



3-3. Focus Adjustment

1. Receive a television broadcast signal.
2. Normalize the picture setting.
3. Adjust the focus control located on the flyback transformer to obtain the best focus at the centre of the screen. Bring only the centre area of the screen into focus, the magenta-ir appears on the screen. In this case, adjust the focus to optimize the screen uniformly.



3-4. Screen (G2), White Balance

[Adjustment in the service mode using the remote commander]

G2 adjustment

1. Input a dot signal from the pattern generator.
2. Set the Picture, Brightness and Colour to minimum.
3. Apply 175V DC from an external power supply to the R, G and B cathodes of the CRT.
4. Whilst watching the picture, adjust the G2 control [SCREEN] located on the flyback transformer to the point just before the flyback return lines disappear.

White balance adjustment for TV mode

1. Input an all-white signal from the pattern generator.
2. Program the Remote Commander for operation in Service Mode. [See Page 22].
3. Enter into the 'Service Mode' by pressing 'AUX/VIDEO' button twice and 'MENU' on the Service Commander.
4. Select 'Service' from the on screen menu display and press 'Right Arrow'.
5. The 'Service' menu will appear on the screen. [See Page 22]
6. Select 'Picture' from the on screen menu and press right arrow.
7. Select 'Picture settings' from the on screen menu and press right arrow and set the 'Contrast_Max' to MAX.
8. Select 'White Balance' from the on screen menu and press right arrow.
9. The 'White Balance' menu will appear on the screen.
10. Set the 'Normal_PAL_RD' to 465.
11. Adjust the 'Normal_PAL_GD' and the 'Normal_PAL_BD' so that the white balance becomes optimum.
12. Select 'Picture settings' from the on screen menu and press right arrow and set the 'Contrast_Min' to MIN.
13. Set the 'Normal_PAL_RC' to 121.
14. Adjust the 'Normal_PAL_GC' and the 'Normal_PAL_BC' with the left and right buttons on the commander so that the white balance becomes optimum.
15. Press the 'OK' button to write the data for each item.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. Electrical Adjustments


Service adjustments to this model can be performed using the supplied remote Commander RM-945.

Programming the Remote Commander for Operation in Service Mode

1. Press and hold the left Mode Select button until the VCR and DVD LED's flash.
2. Press 99999. The TV LED should light. The remote commander is now set to Service Mode.
3. To return the remote commander to normal operation mode repeat step 1. then press 00000. The TV LED should light. The remote commander is now set to normal mode.



Setting the TV into Service Mode

1. Program the remote commander for operation in Service Mode as described above.
2. Turn on the TV main power switch.
3. Press the 'aux/video' standby button  on the remote commander twice. 'TT __' will appear in the upper right corner of the screen. Other status information will also be displayed.
4. Press 'MENU' on the remote commander to obtain the following menu on the screen.

Service Main Menu:AE6BA/Y (v0.26D) NVM VERSION:04H	
Service	▶
Design	
Error	
Select: ▲ ▼	Select Item: ▶ FACTORY INFO:FFH FFH 03H

5. Move to the corresponding adjustment item using the up or down arrow buttons on the Remote Commander.
6. Press the right arrow button to enter into the required menu item.
7. Press the 'aux/video' button on the Remote Commander to quit the Service Mode when all adjustments have been completed.

Note :

After carrying out the service adjustments, to prevent the customer accessing the 'Service Menu' switch the TV set OFF and then ON.

Service		
Geometry		▶
Picture		
Audio		
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀

Geometry		
Wide mode adjustment		▶
Screen offsets		
Frequency offsets		
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀

Wide mode adjustment			
Description	(min,max)	Default	Value
V AMP	(-128,127)	35	35 ▶
V ZOOM	(0,510)	256	256
V POS	(-512,511)	-10	-10
V LIN	(-128,127)	0	0
V SCORR	(-128,1270)	4	4
H WIDTH	(-256,255)	63	63
V TRAP	(-128,127)	1	1
PIN AMP	(-511,511)	-80	-80
UP COR	(-128,127)	-1	-1
LOW COR	(-128,127)	-2	-2
H POS	(-600,600)	10	10
ANGLE	(-511,511)	-1	-1
BOW	(-511,511)	8	8
H LIN	(0,255)	85	84
H TRAP	(0,255)	138	138
H SCORR	(0,255)	100	100
UP COR 6	(-128,127)	-1	-1
LOW COR 6	(-128,127)	0	0
PIN UNBAL	(-240,240)	-40	-40
MID PIN	(-240,240)	-60	-60
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀	

Picture		
White balance		▶
Colour Tone		
Picture settings		
Select: ▲ ▼	Select Item: ▶	Previous Menu: ◀

Picture settings

Description	(min,max)	Default	Value
SUBCOLOR PAL	(0,63)	31	34 ►
SUBCOLOR SECAM	(0,63)	31	34
SHP MAXLTI	(0,31)	31	20
SHP MAXPEAK	(0,15)	15	12
CONTRAST MIN	(0,63)	17	17
CONTRAST MAX	(0,63)	59	59
BRIGHT EXPAND	(0,511)	400	400
BRIGHT CENTER	(-256,255)	10	40

Select: ▲ ▼ Select Item: ► Previous Menu: ◀

Audio

BBE OFF mode	►
BBE Natural/V.Dolby offsets	
BBE Dynamic offsets	
BBE Cinema offsets	
Subwoofer level adjustments	
Audio detection thresholds	

Select: ▲ ▼ Select Item: ► Previous Menu: ◀

BBE OFF mode

Description	(min,max)	Default	Value
SW_FREQ_OFF	(5,40)	20	20 ►
BAND1_OFF_OFFSET	(-96,96)	0	0
BAND2_OFF_OFFSET	(-96,96)	0	0
BAND3_OFF_OFFSET	(-96,96)	0	0
BAND4_OFF_OFFSET	(-96,96)	0	0
BAND5_OFF_OFFSET	(-96,96)	0	0
BBE_LOUDNESS_OFF	(0,68)	0	0

Select: ▲ ▼ Select Item: ► Previous Menu: ◀

Design

CXA2149 - AVSwitch Device	►
DDP3315 - Backend Device	
MSP3411 - Sound Processor Device	
TDA988x - IF Device	
TUA60xx - PLL Device	
VSP9427 - Video Processor Device	
CXA2019 - Chroma Decoder	
CXD3804 - 3D Comb Filter	
CXA8070 - Dynamic Convergence Device	
FRC9429 - FRCA Device	
PJ Engine	

Select: ▲ ▼ Select Item: ► Previous Menu: ◀

Error monitor

WORKING TIME:	(Hours:Minutes)	82:33
Error counters:		
E02: OCP		0
E03: OVP		0
E04: NO V SYNC		0
E05: IKR		0
E06: IIC		0
E07: NVM		0
E08: H PROT		0
E09: TUNER		0
E10: SOUND		0
E11: 9 VOLTS		0
E12: SCANRATE		0
E13: 3DCOMB		0
E14: BACKEND		0
E15: DYNCON		0
E16: HIGH VOLTAGE		0
E17: AVSWITCH		0
E18: CHROMA DEC		0
E19: FRCA		0
E20: PJ ENG		0
E21: DAC		0
E24: SPEAKER PROT		0
E25: MEMORY STICK		0

Select: ▲ ▼ Previous Menu: ◀

Sub Brightness Adjustment

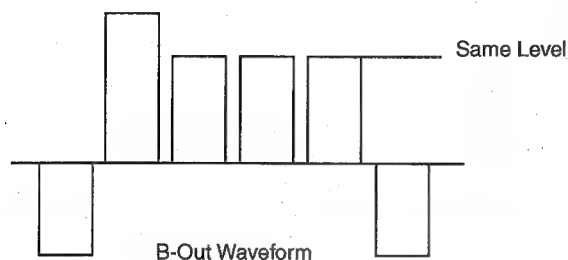
1. Input a Monoscope pattern.
2. Program the Remote Commander for operation in Service Mode. [See Page 22].
3. Press 'AUX/VIDEO' 'AUX/VIDEO' 13 on the Remote Commander.
4. Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

Sub Contrast Adjustment

1. Input a video signal that contains a small 100% white area on a black background.
2. Connect an oscilloscope to Pin 10 of J7330 [C Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 22].
4. Adjust the Sub-Contrast [Using 'AUX/VIDEO' 'AUX/VIDEO' '11'] to obtain a voltage of 114 +/- 5V.

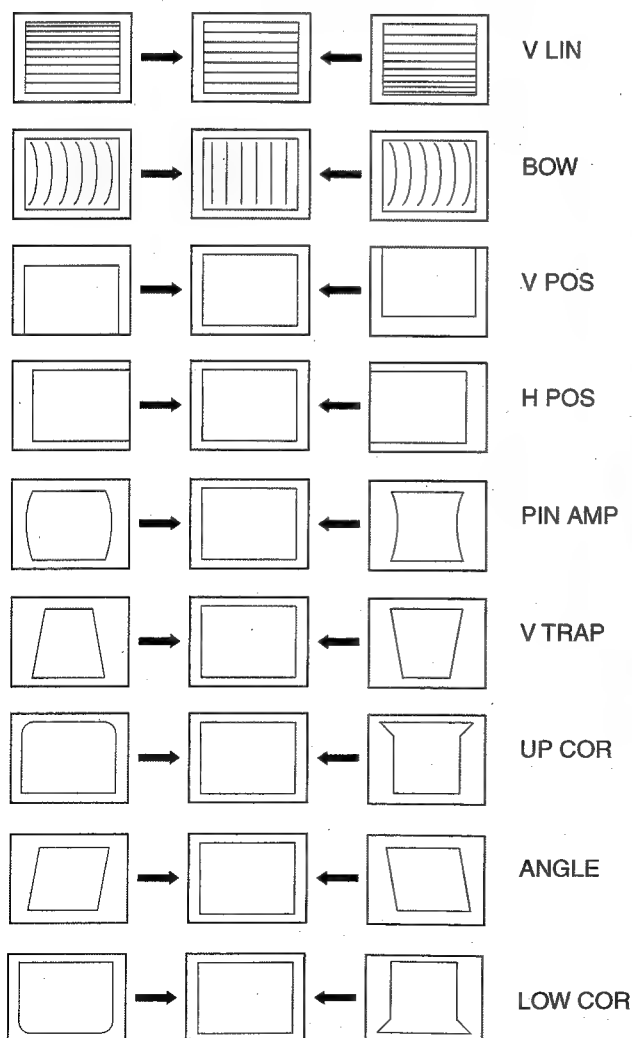
Sub Colour Adjustment

1. Receive a PAL colour bar signal.
2. Connect an oscilloscope to Pin 5 of CN7331 [C Board].
3. Program the Remote Commander for operation in Service Mode. [See Page 22].
4. Adjust the 'Sub Colour'
[Using 'AUX/VIDEO' 'AUX/VIDEO' '12'] so that the Cyan, Magenta and Blue colour bars are of equal levels as indicated below.



Deflection System Adjustment

1. Program the Remote Commander for operation in Service Mode. [See Page 22] and enter into the 'Geometry' service menu, Wide mode adjustment.
2. Select and adjust each item in order to obtain the optimum image.

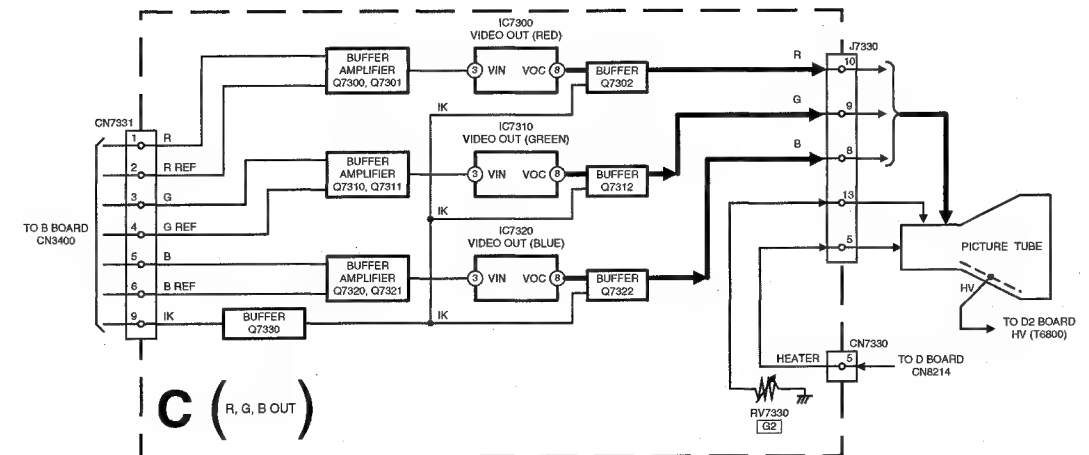
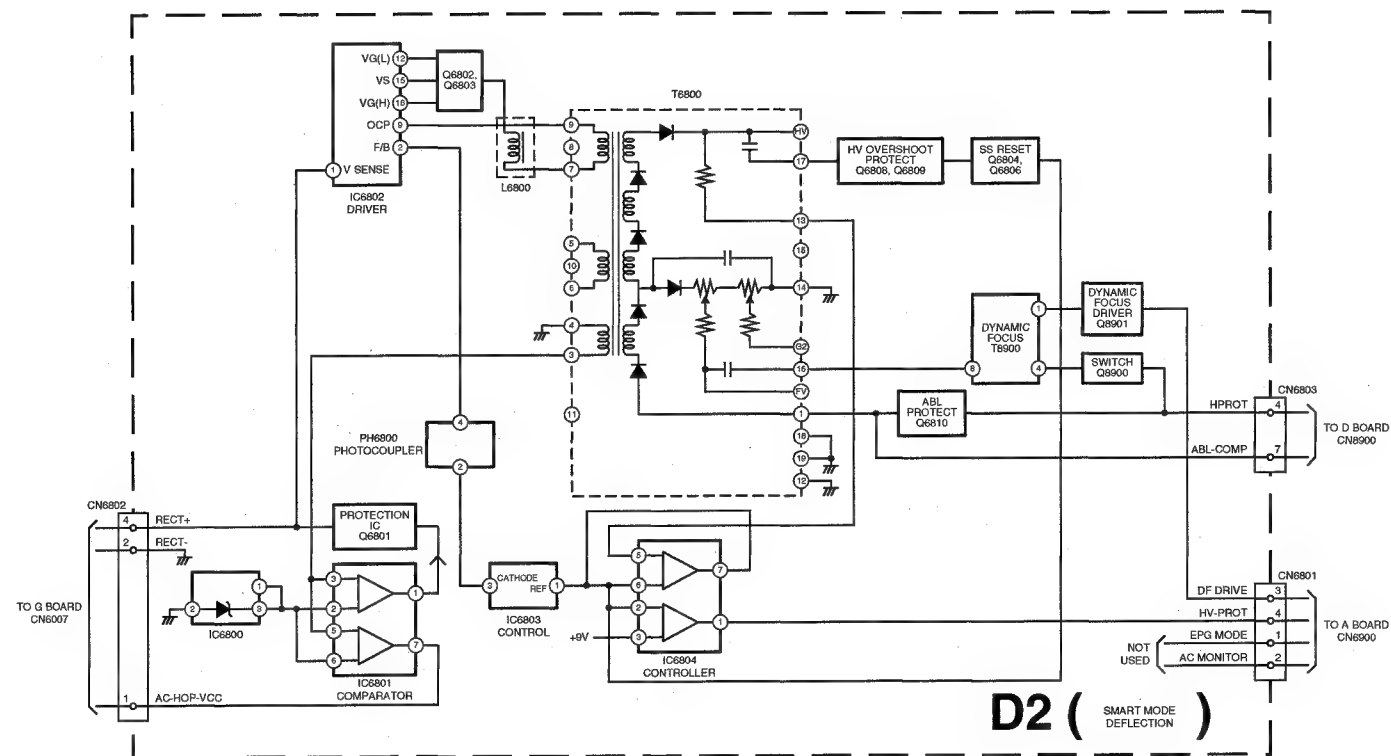
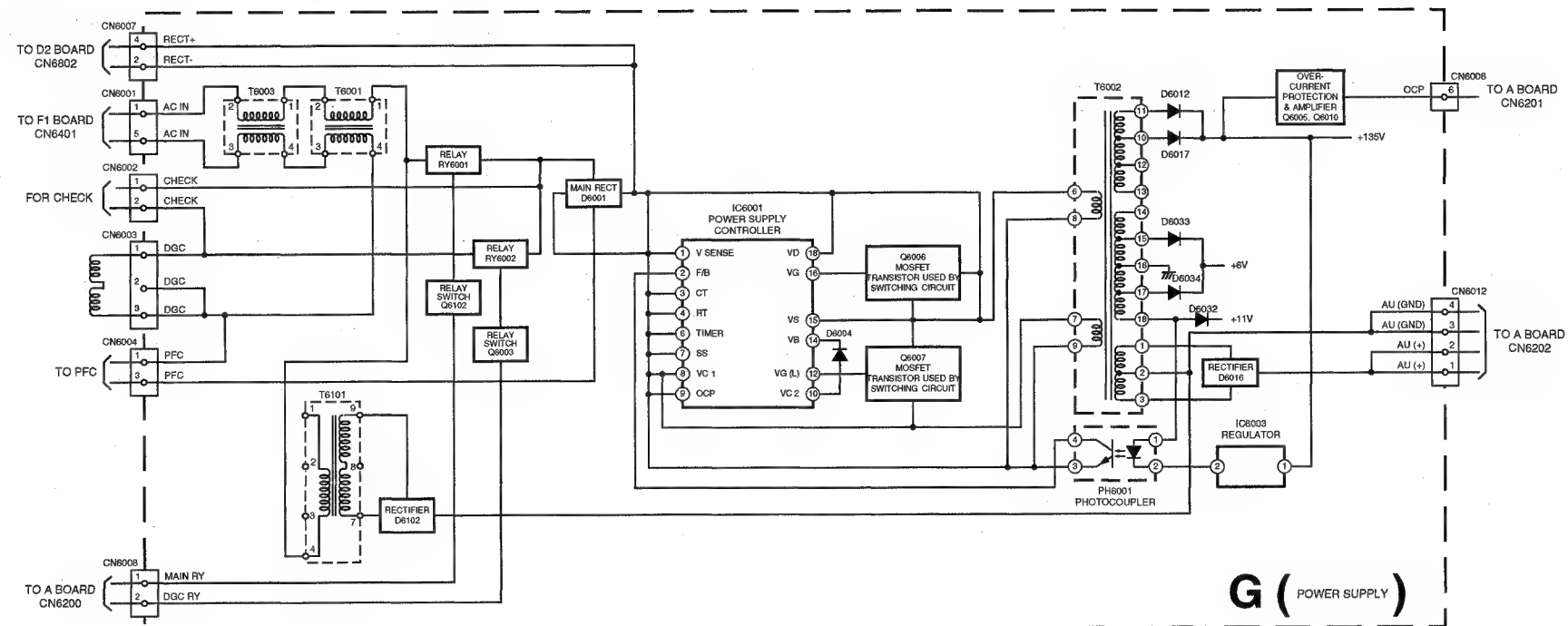


4-2 TEST MODE 2:

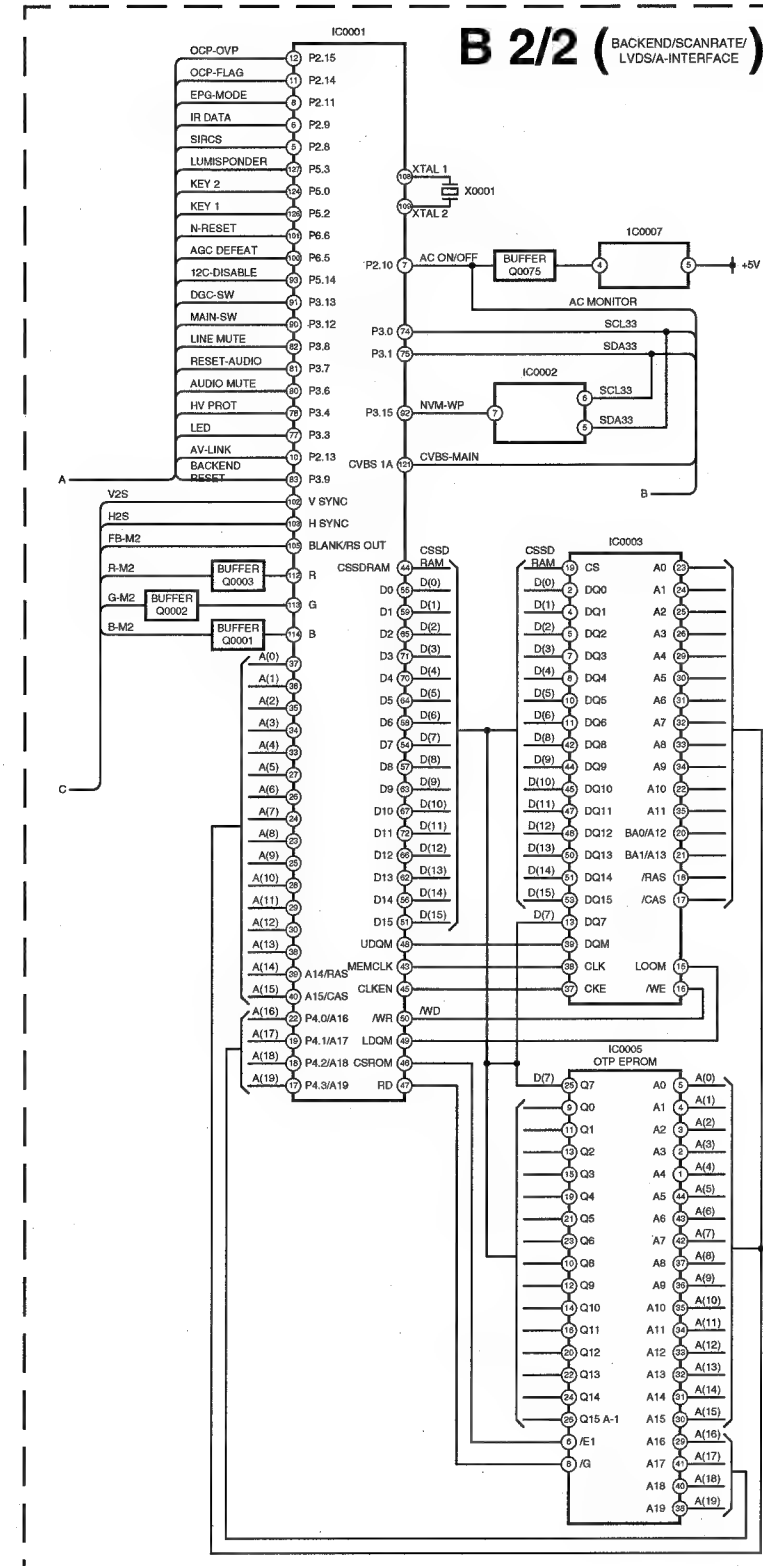
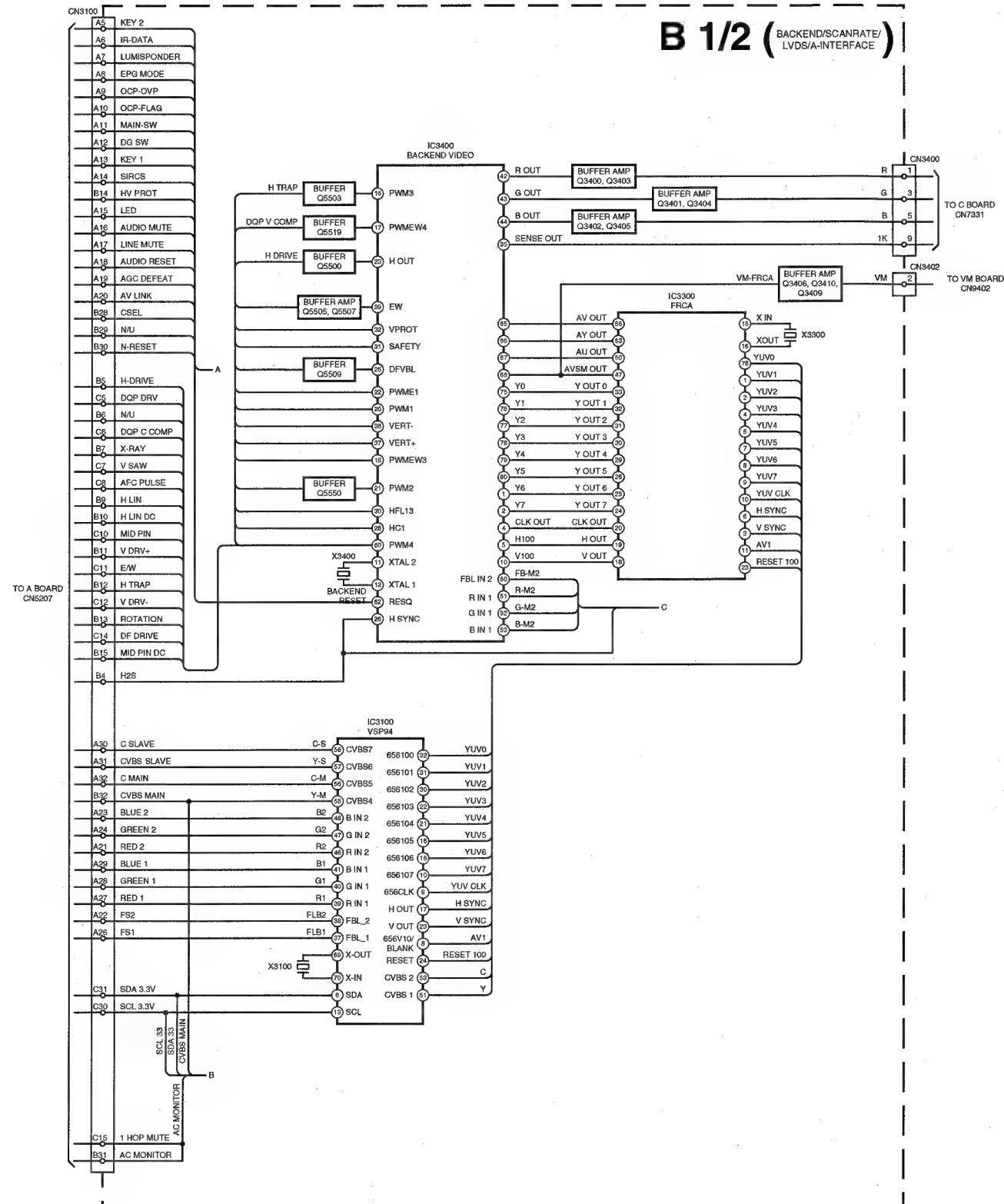
Test Mode 2 is available by programming the Remote Commander for operation in Service Mode [As shown on Page 22] then pressing the 'AUX/VIDEO' button twice, OSD 'TT' appears. The functions described below are available by selecting the two numbers. To release 'Test mode 2', press 00, or switch the TV set into Stand-by mode.

00	'TT' mode off
01	Set picture level to maximum
02	Set picture level to minimum
03	Set speaker/headphone Volume to 35%
04	Set speaker/headphone Volume to 50%
05	Set speaker/headphone Volume to 65%
06	Set speaker/headphone Volume to 80%
07	Ageing mode on
08	Shipping Condition
11	Sub picture adjustment
12	Sub colour adjustment
13	Sub brightness adjustment
15	Rotation coil test
16	Picture level 50%
19	Factory mode enable/disable
21	Destination ADEKR
22	Destination BL
24	Destination U
35	Wide model selection
36	VM off/on test
43	Select Dual A sound
44	Select Dual B sound
45	Select Mono sound
46	Select Stereo sound
49	Set NVM as virgin
53	FM Overmodulation enable/disable
62	AM from baseband enable/disable
73	Enable Zweiton D/K2 system (6.5/6.74)
74	Enable Zweiton D/K3 system (6.5/6.74)
78	Balance full left
79	Balance full right
87	Local keys test
91	Set 14:9 zoom mode
92	Set Smart zoom mode
93	Set 16:9 zoom mode
94	Set ZOOM zoom mode
95	Set 4:3 zoom mode
96	Set Smart zoom mode (for FX66)
99	DisplayError and Working Time menu

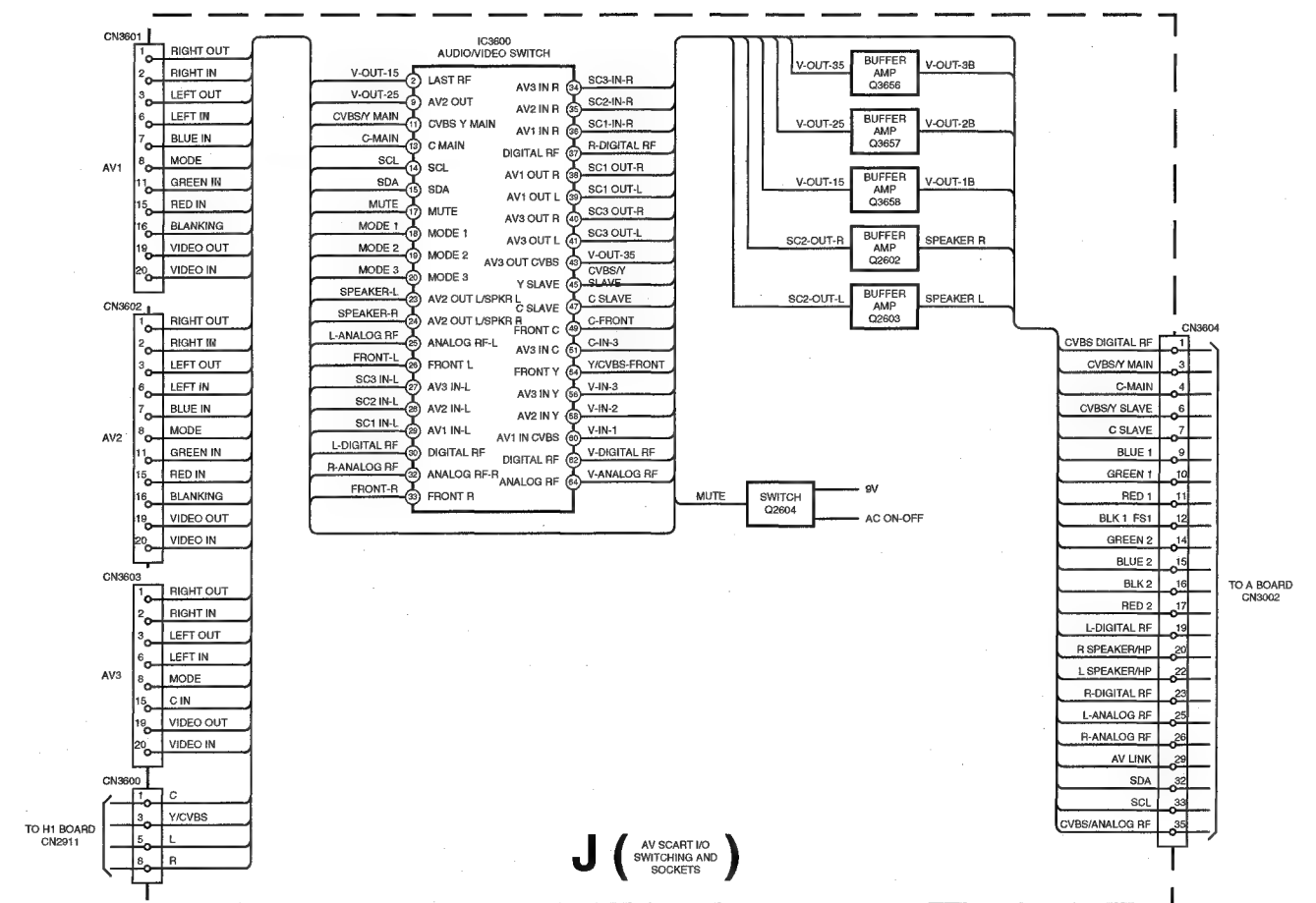
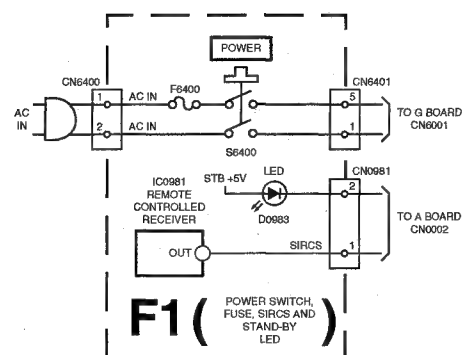
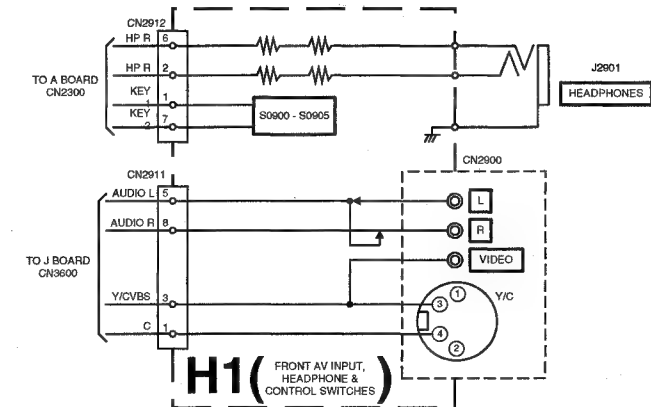
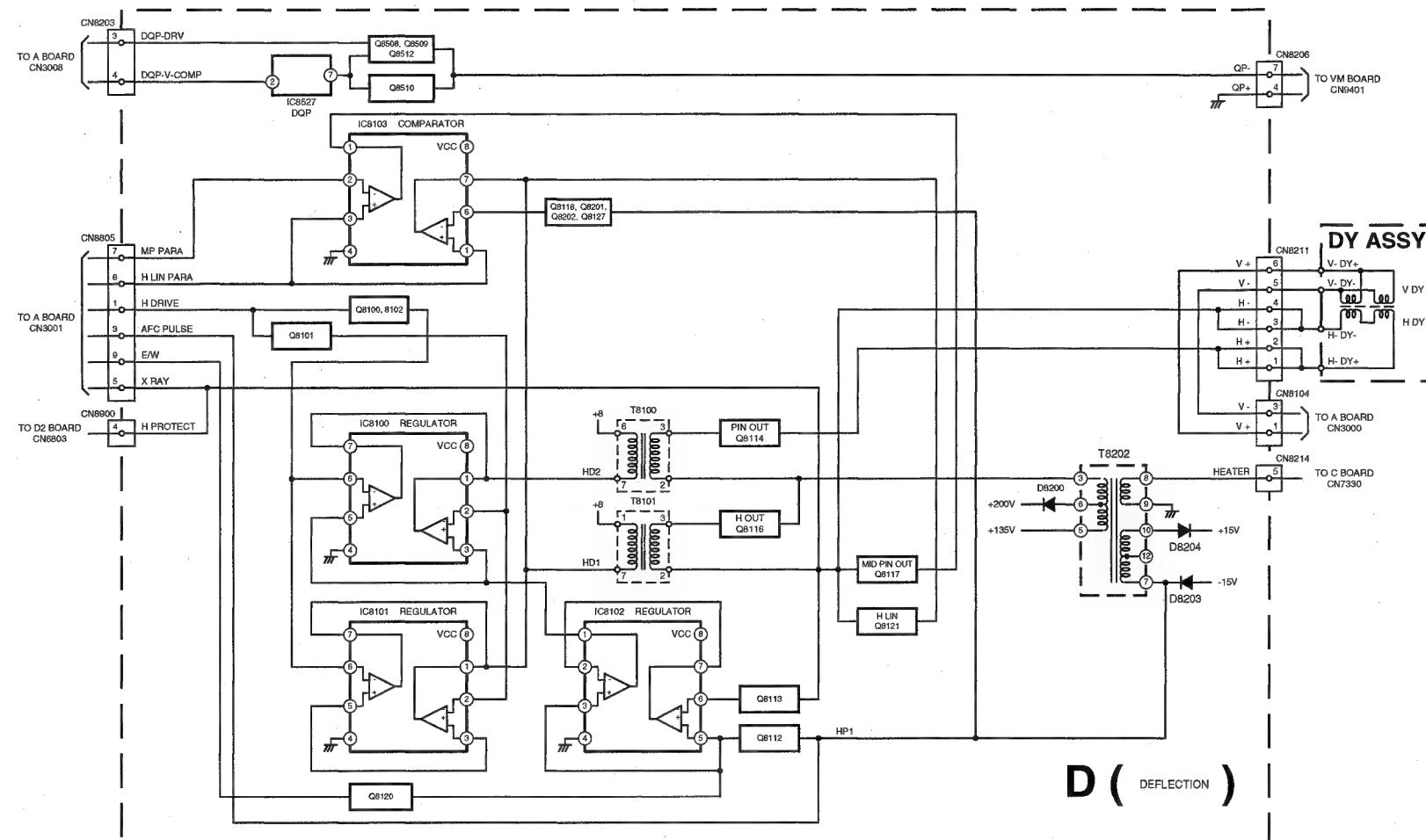
5-1. BLOCK DIAGRAMS (1)



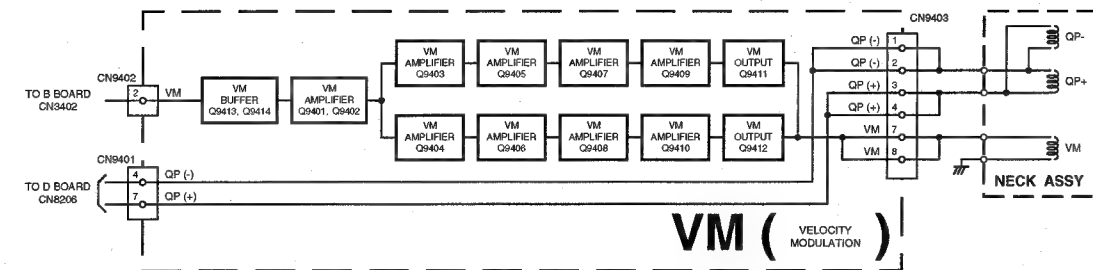
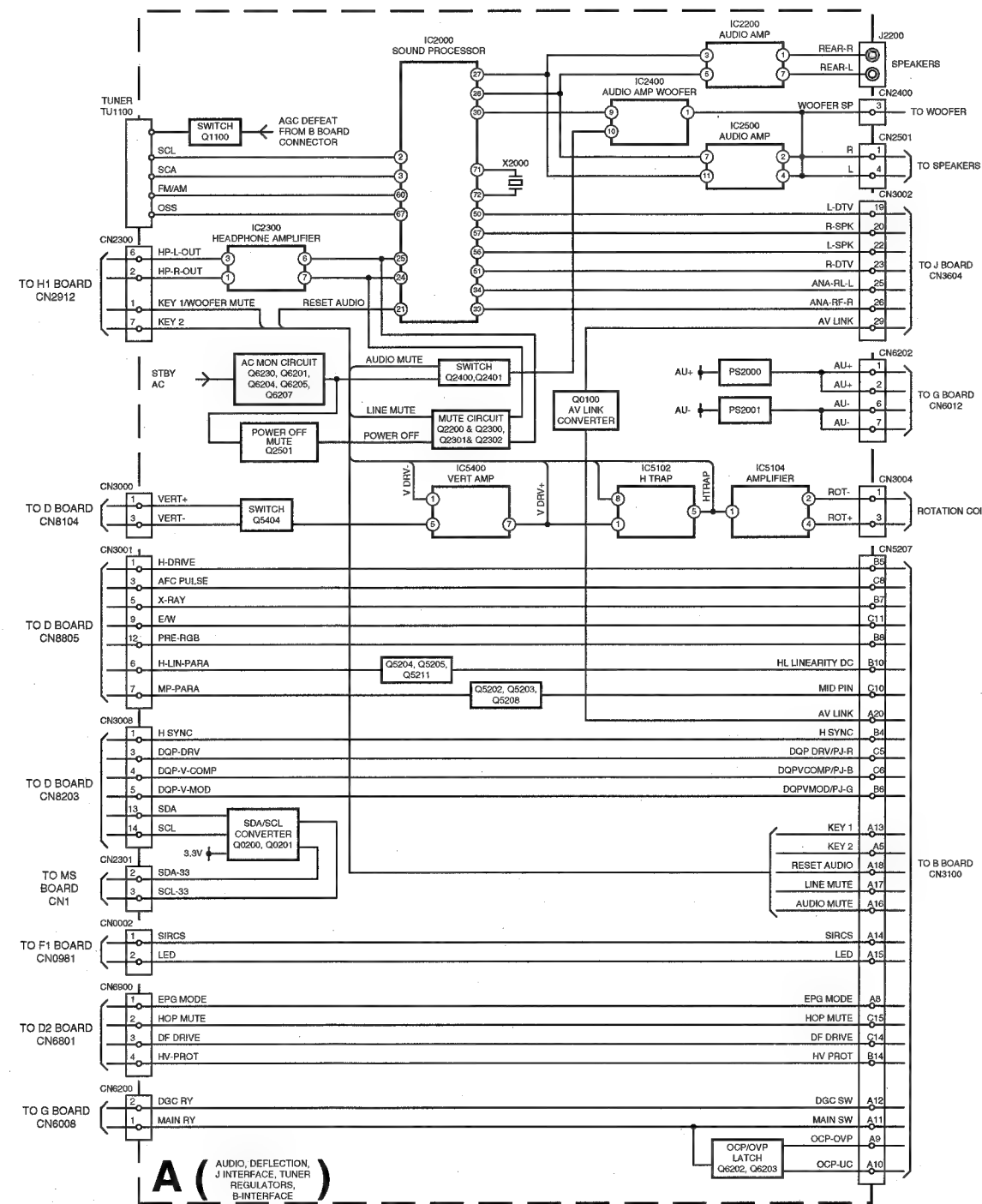
5-1. BLOCK DIAGRAMS (2)



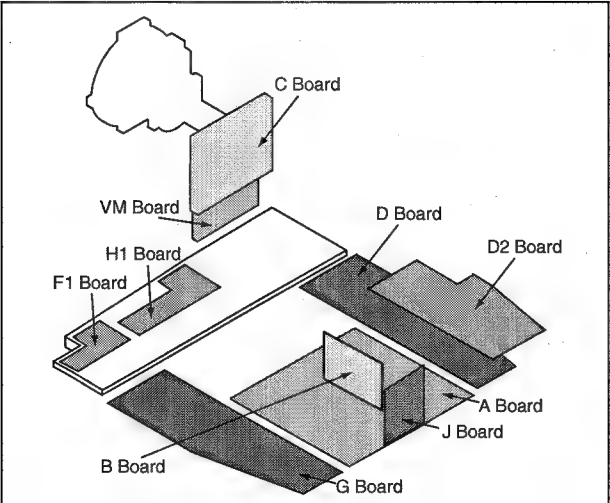
5-1. BLOCK DIAGRAMS (3)



5-1. BLOCK DIAGRAMS (4)



5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note :**
- All capacitors are in μF unless otherwise noted.
 - $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytic types.
 - Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch : 5mm
Electrical power rating : 1/4W
- Chip resistors are 1/10W
 - All resistors are in ohms.
 $k = 1000 \text{ ohms}$, $M = 1000,000 \text{ ohms}$
 - : nonflammable resistor.
 - : fusible resistor.
 - : internal component.
 - : panel designation or adjustment for repair.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - All voltages are in Volts.
 - Readings are taken with a 10Mohm digital multimeter.
 - Readings are taken with a color bar input signal.
 - Voltage variations may be noted due to normal production tolerances.
 - : B + bus.
 - : B - bus.
 - : RF signal path.
 - : earth - ground.
 - : earth - chassis.

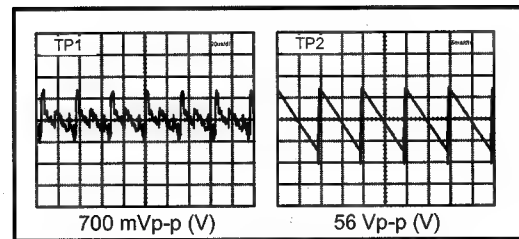
Reference Information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
		: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

~ A Board Waveforms ~



~ A Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q1100	0	0	4.5	Q2202	0	0.4	0	Q2500	0.1	0.1	0.6	Q5101	0.8	1.4	6.8	Q5208	0	0	1.5
Q1300	2.7	2.1	8.4	Q2300	0	0	0.7	Q2501	0	0.6	0	Q5200	6.8	6.3	3.0	Q5209	0	0	1.5
Q1301	2.1	2.1	0	Q2301	0	0.4	0	Q2502	0	0	5.0	Q5201	0	0.4	3.0	Q5210	0	0	1.5
Q2000	0	0	4.7	Q2302	0	0.4	0	Q2503	0	0	5.0	Q5203	0	0.4	3.0	Q5211	0	0	1.5
Q2200	0	0	-1.6	Q2400	3.9	3.4	0	Q2504	5.0	5.0	0	Q5205	0	0.4	1.5	Q5404	0	12.1	0
Q2201	0	0.4	0	Q2401	0	0	4.7	Q5100	2.4	1.8	0	Q5207	0	0.4	3.0	Q6201	1.5	0.6	3.4
																Q6202	3.4	3.4	0
																Q6203	0	0	3.4
																Q6204	3.4	3.4	0
																Q6205	3.5	2.7	3.4
																Q6206	1.5	2.0	2.7
																Q6207	0	0	3.4

~ A Board Location Table (A Side) ~

DIODE		D5405	D - 10	D6211	K - 4	IC2500	H - 3	IC6204	M - 4
D2200	D - 3	D6201	J - 9	D6212	J - 9	IC5102	I - 10	IC6207	J - 10
D2201	E - 3	D6203	L - 5	D6213	L - 8	IC5104	H - 10	IC6209	J - 8
D5103	H - 10	D6204	K - 2	IC		IC5400	E - 10	IC6210	K - 4
D5404	E - 11	D6210	L - 4	IC2400	J - 4	IC6202	L - 8	IC6212	L - 3

~ A Board IC Voltage Table ~

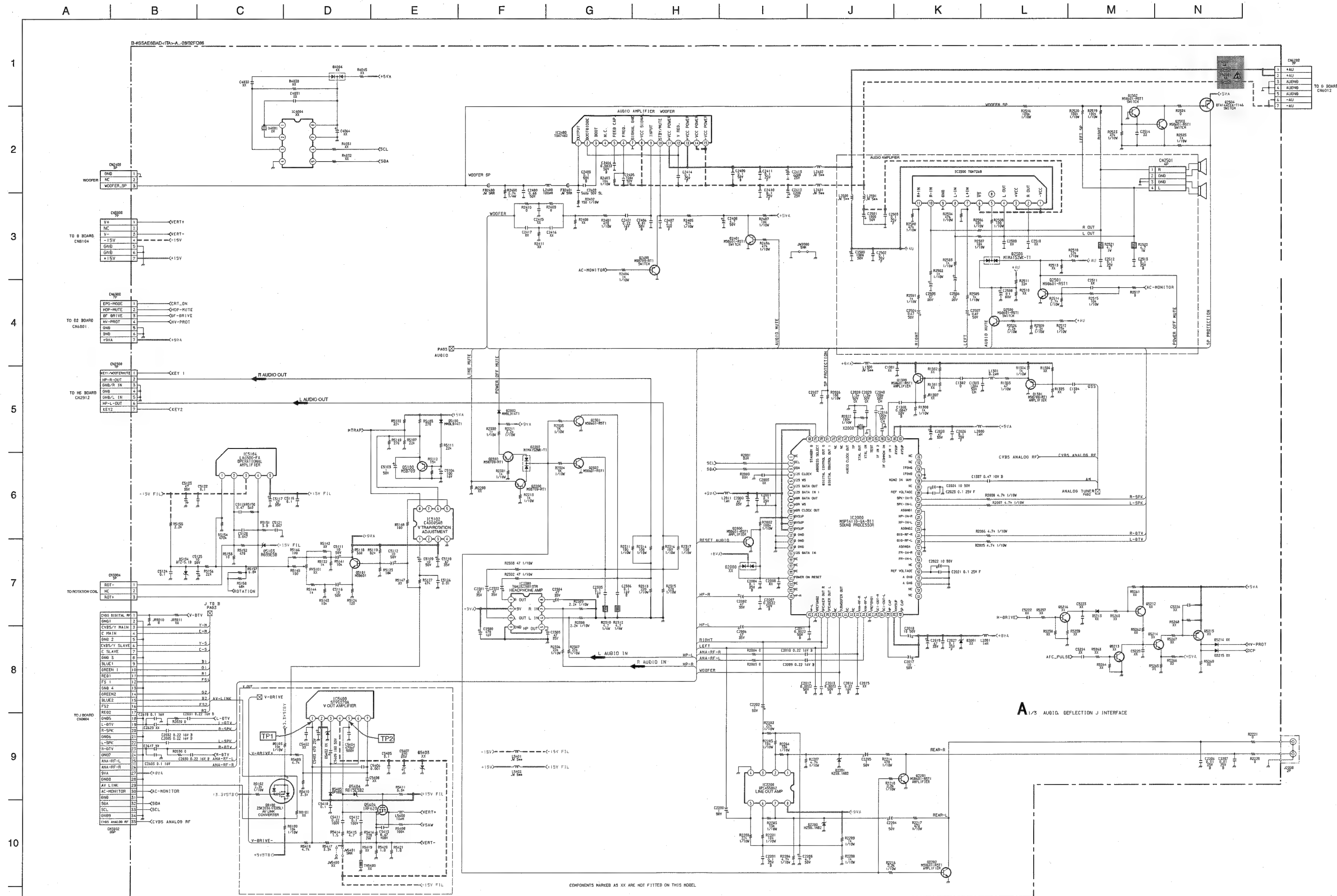
IC Voltage Table			IC Voltage Table			IC Voltage Table			IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC2200	1	4.5	IC2300	6	0	IC2400	12	-4.0	IC5102	2	0	IC5400	7	0.4
	2	4.5		IC2500	7	0	IC5104	5		2.5	IC6202	4	1.3	
	3	4.5			8	0.5		6		2.5	5	6.7		
	5	4.5	IC2400		1	0		IC5400	8	2.2	IC6207	4	1.3	
	6	4.5		2	-4.0	1	14.6		5	6.7				
	7	4.5		3	10.0	9	0		1	0.4	IC6209	4	1.3	
IC2300	1	4.0	IC2400	5	0	IC5102	10	0	IC5400	3	-12.3	IC6212	5	6.7
	3	4.0		6	-13.2		11	0		5	0		4	5.1
	5	0.5		10	3.9		1	17.1		6	15.7		5	0

~ A Board Location Table (B Side) ~

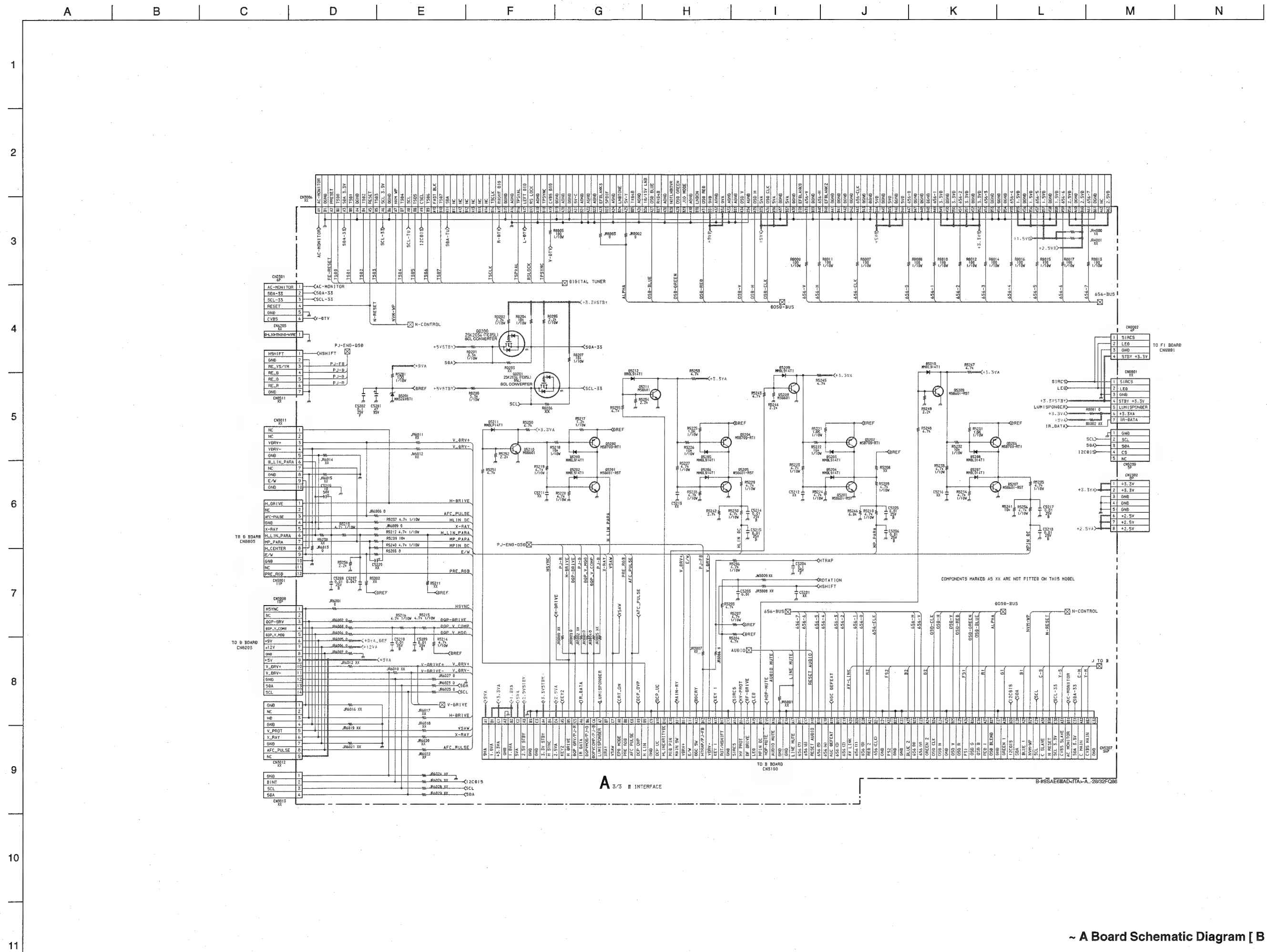
DIODE		D5206	G - 7	D6204	E - 2	IC2200	L - 4	IC6207	F - 9	Q1300	L - 2	Q2401	F - 4	Q5202	H - 4	Q5404	K - 10	
D2200	L - 3	D5207	G - 6	D6205	E - 3	IC2300	J - 3	IC6209	F - 9	Q1301	K - 2	Q2500	H - 3	Q5203	H - 4	Q6201	E - 2	
D2201	J - 4	D5208	H - 6	D6206	D - 3	IC2400	G - 4	IC6210	F - 4	Q2000	J - 3	Q2501	H - 3	Q5204	G - 7	Q6202	E - 3	
D2202	J - 4	D5209	G - 7	D6207	D - 3	IC2500	H - 3	IC6211	E - 5	Q2200	I - 4	Q2502	H - 4	Q5205	F - 6	Q6203	E - 3	
D2500	H - 3	D5210	G - 6	D6208	D - 3	IC5102	G - 10	IC6212	E - 4	Q2201	L - 3	Q2503	H - 4	Q5206	H - 7	Q6204	E - 3	
D5100	G - 10	D5211	G - 6	D6210	D - 3	IC5104	H - 10	TRANSISTOR		Q2202	L - 3	Q2504	H - 4	Q5207	H - 6	Q6205	E - 2	
D5104	H - 9	D5404	K - 10	D6213	D - 8	IC5400	K - 10	Q0100	K - 6	Q2300	I - 4	Q5100	G - 10	Q5208	G - 7	Q6206	E - 2	
D5200	F - 7	D5405	L - 10	D6214	E - 4	IC6200	E - 5	Q0200	K - 7	Q2301	I - 4	Q5101	F - 10	Q5209	H - 6	Q6207	E - 2	
D5202	F - 6	D6201	F - 9	IC		IC6202	D - 8	Q0201	K - 7	Q2302	J - 4	Q5200	F - 6	Q5210	G - 6	Q6208	E - 3	
D5205	G - 7	D6203	D - 5	IC2000		K - 4	IC6204	E - 4	Q1100	M - 2	Q2400	F - 4	Q5201	F - 6	Q5211	G - 6	Q6209	E - 4

~ A Board Difference Table ~

Ref	KV-28FQ86B	KV-28FQ86E	KV-32FQ86B	KV-32FQ86E	KV-32FQ86K	KV-32FQ86U
TU1100	FRONTEND BTF-EF411	FRONTEND BTF-EC411	FRONTEND BTF-EF411	FRONTEND BTF-EC411	FRONTEND BTF-EC411	FRONTEND BTF-EU611

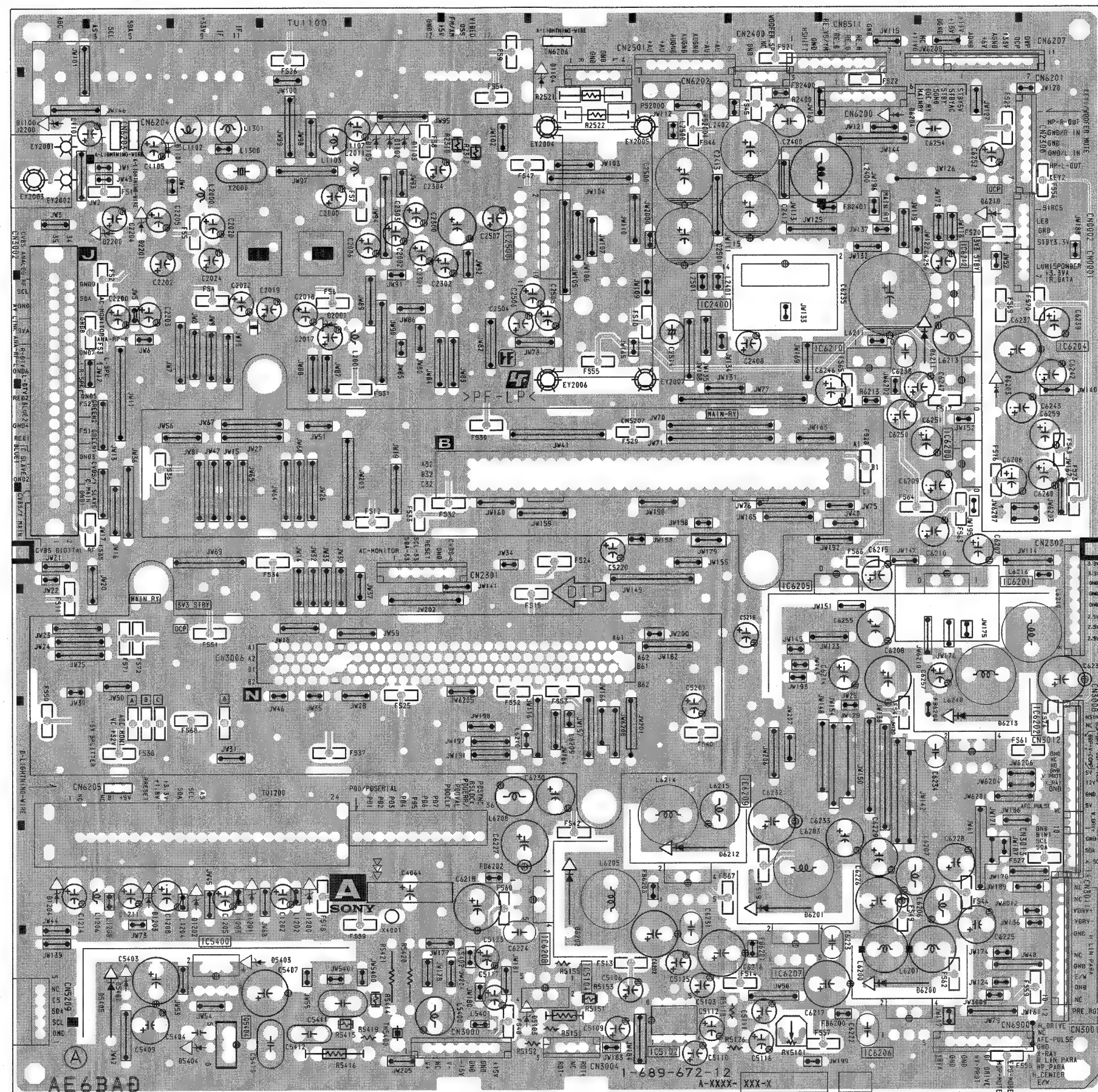




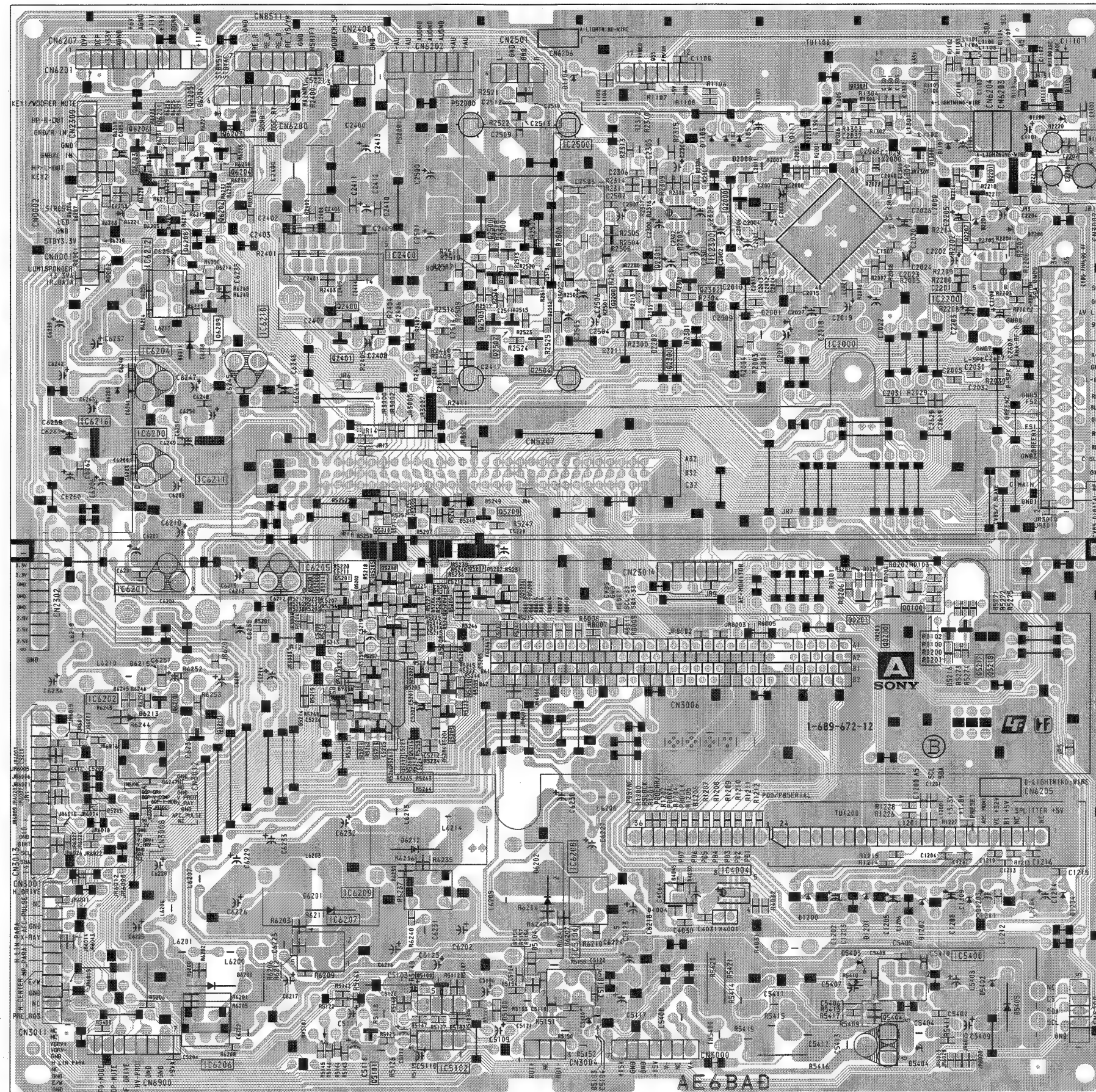


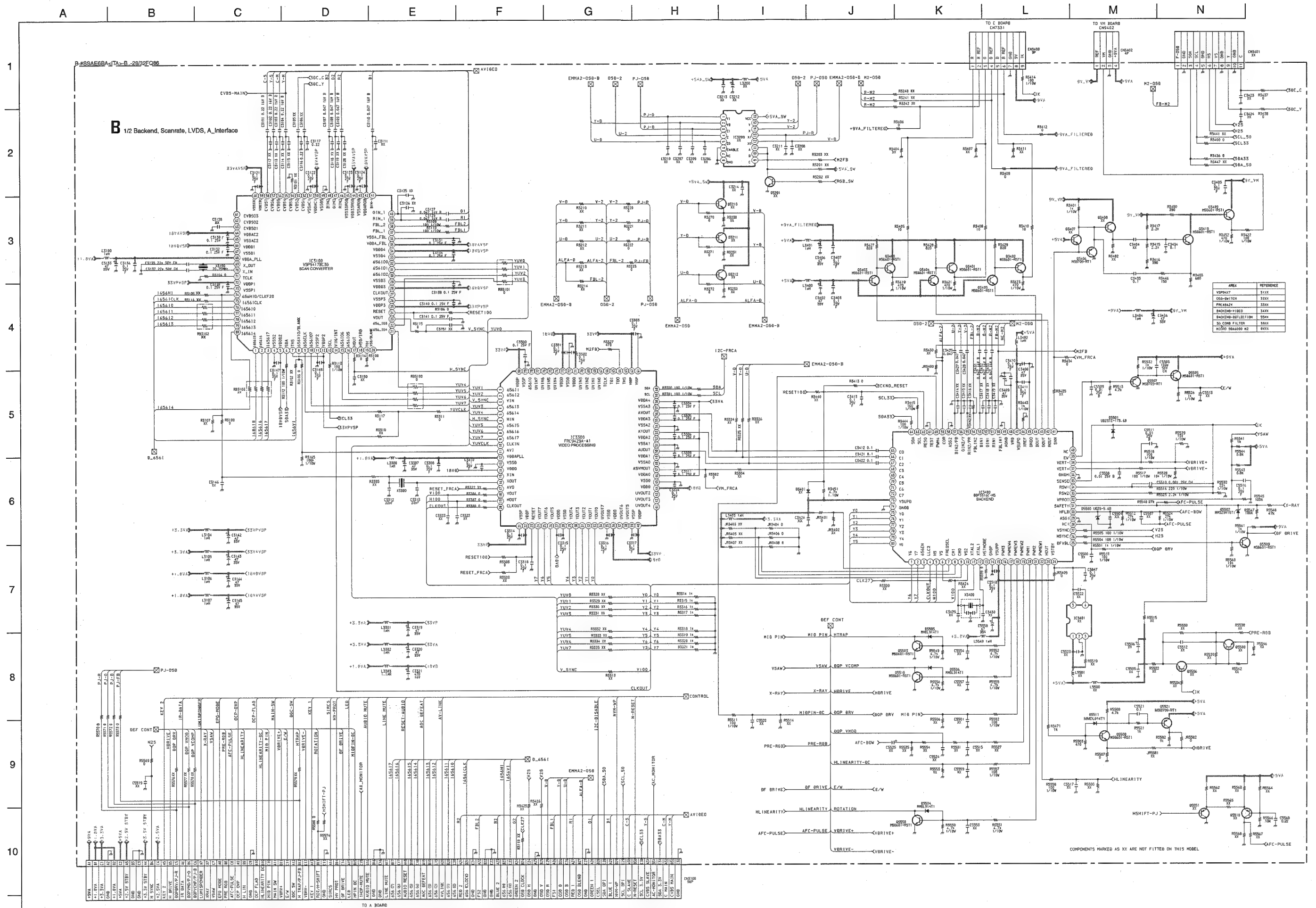
A B C D E F G H I J K L M N

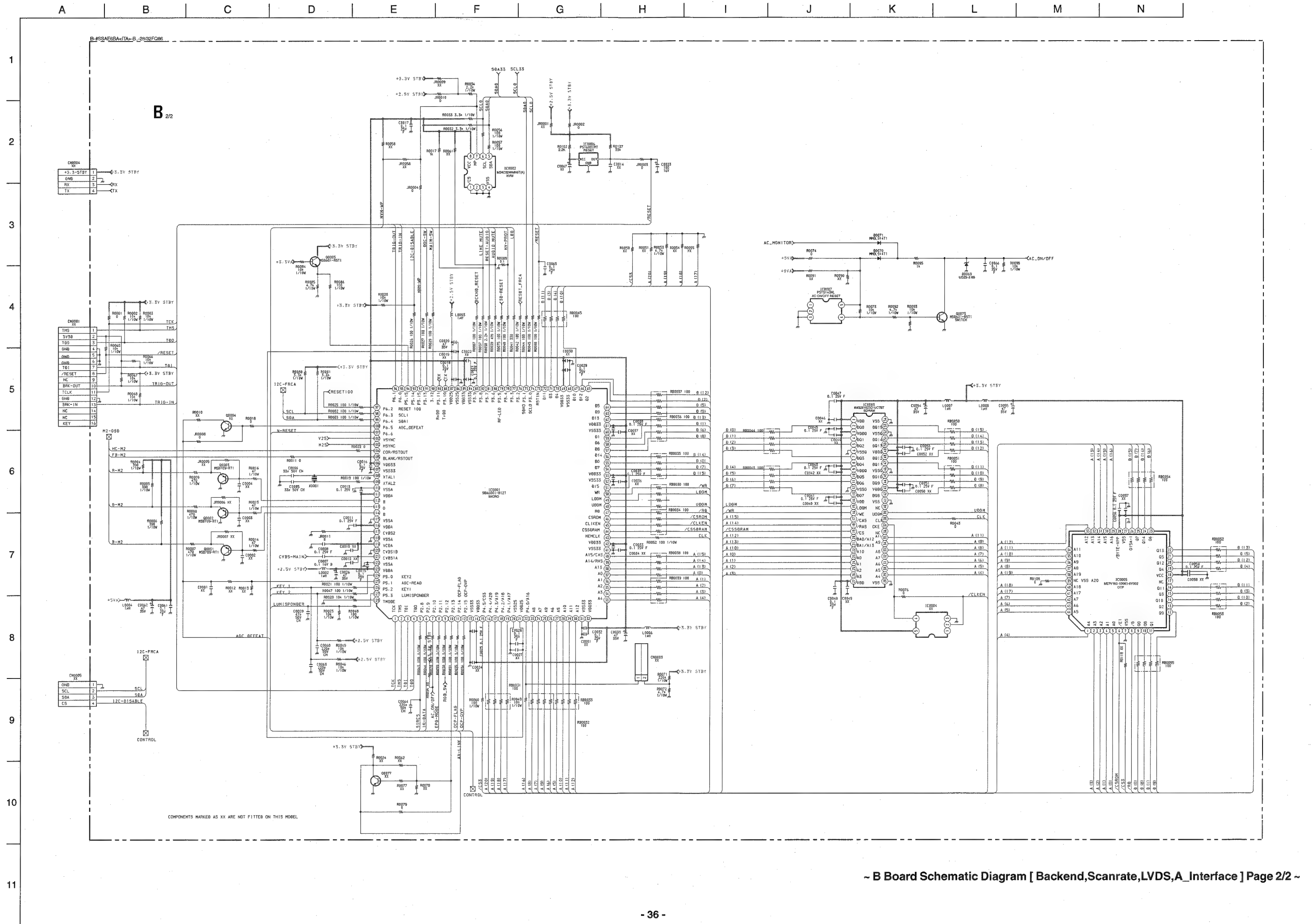
~ A Printed Wiring Board Conductor side A ~



~ A Printed Wiring Board Conductor side B ~

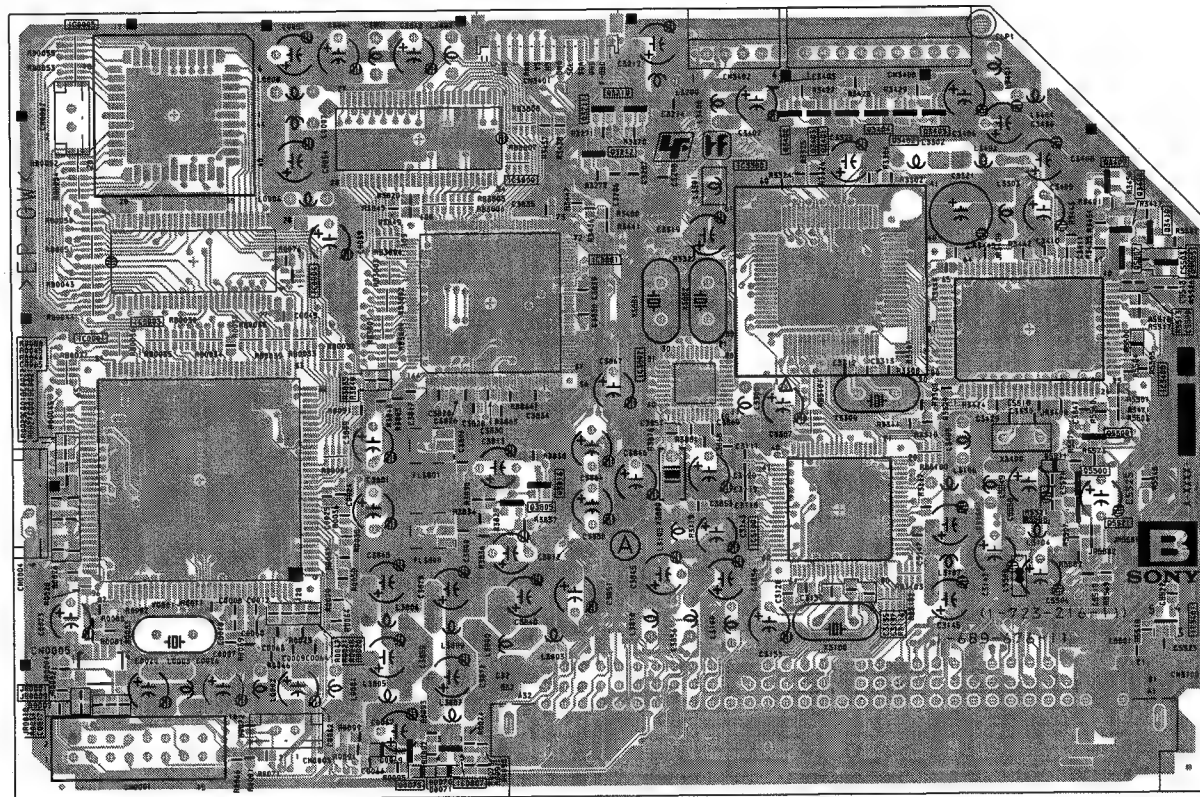




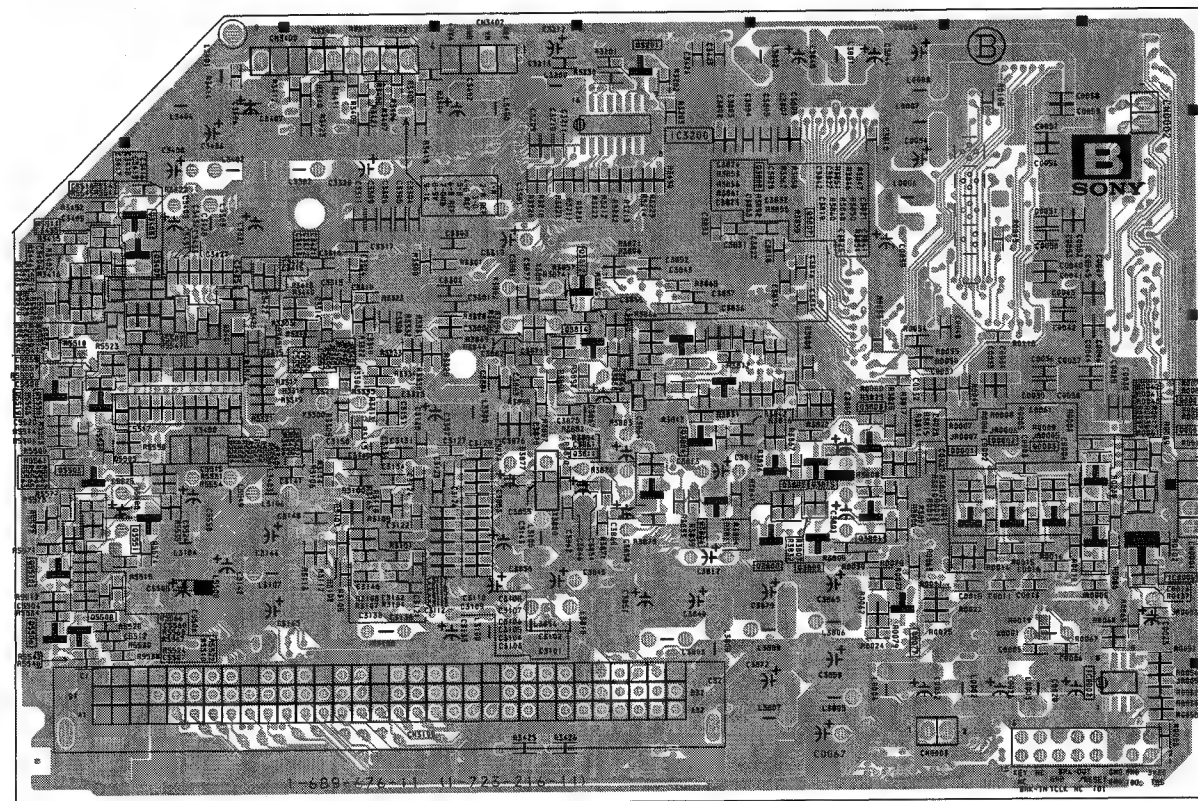


A B C D E F G H I J K L M N

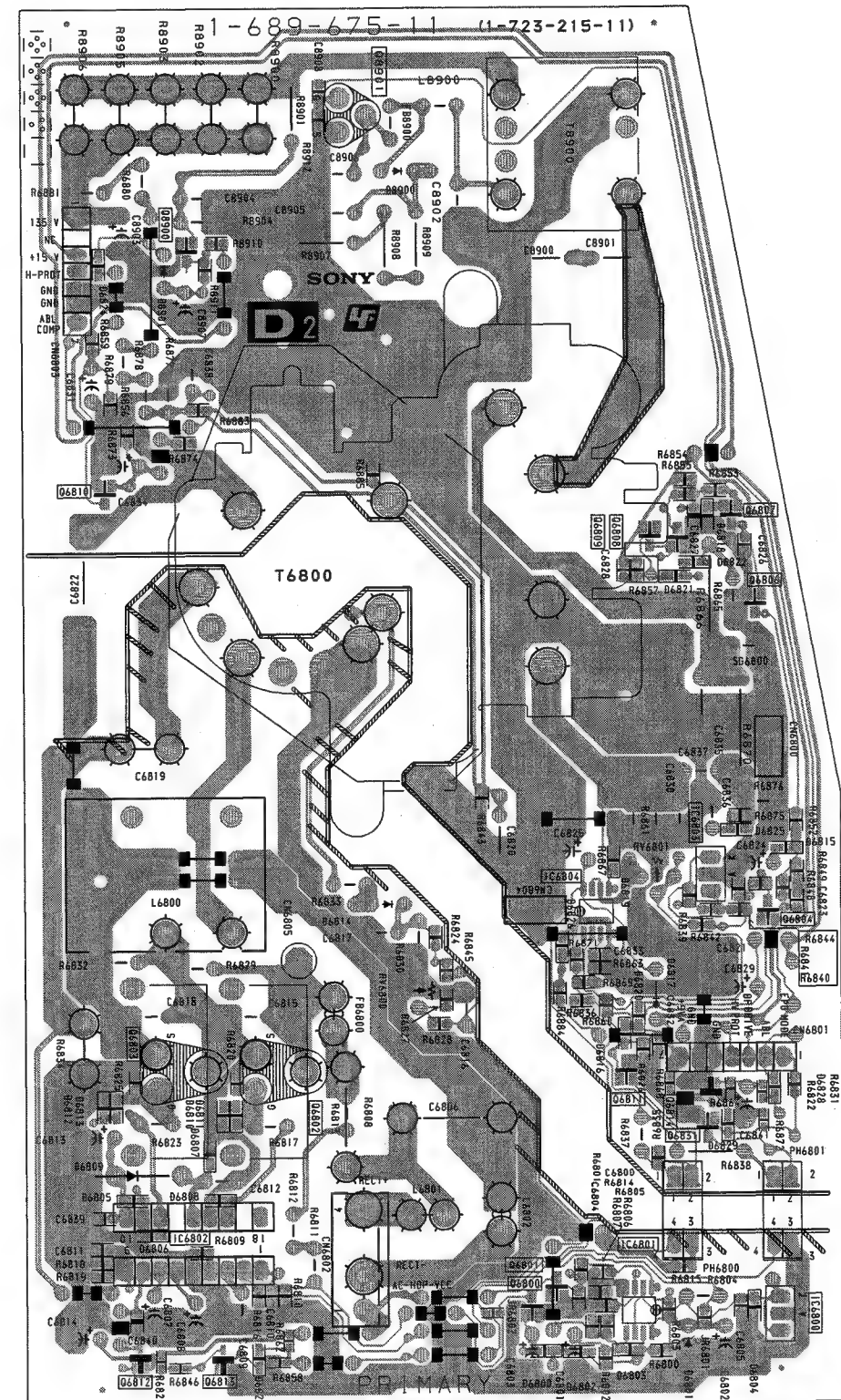
~ B Printed Wiring Board Conductor side A ~



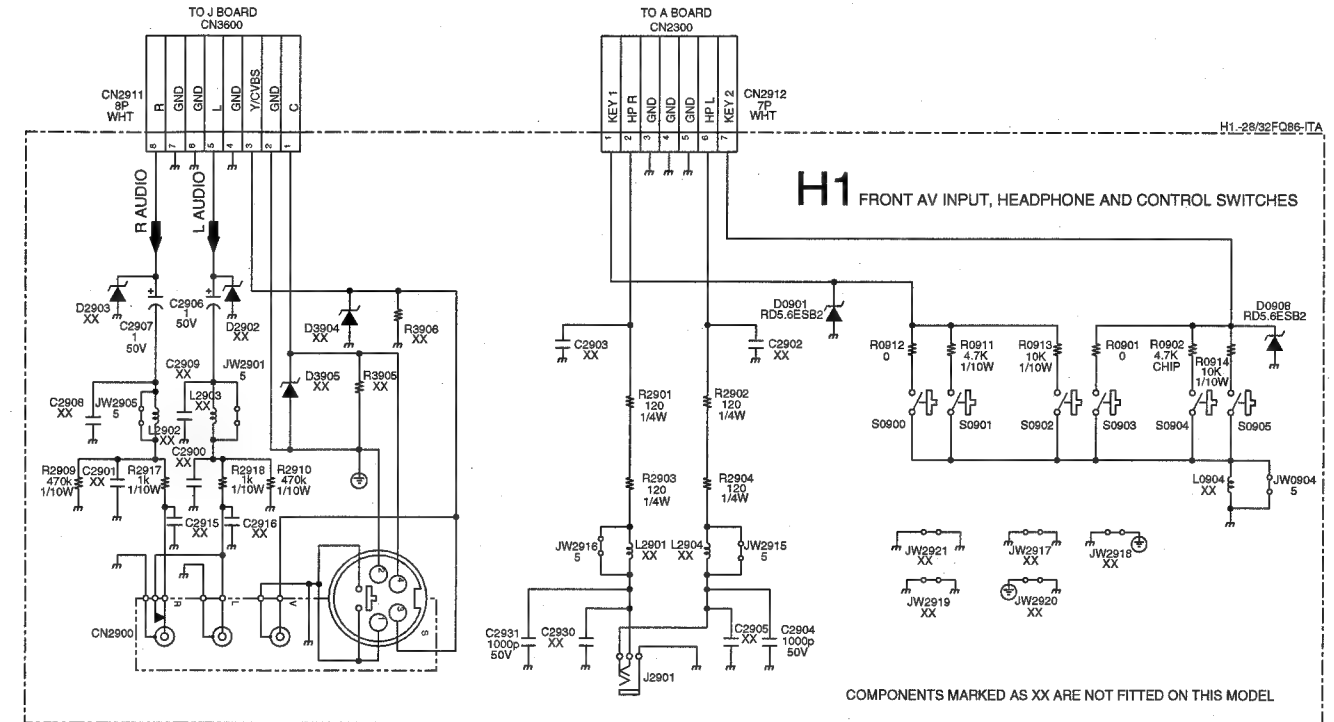
~ B Printed Wiring Board Conductor side B ~



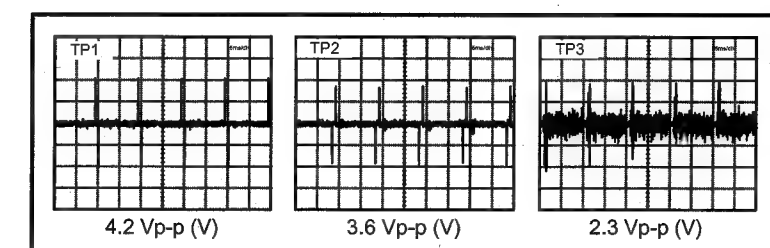
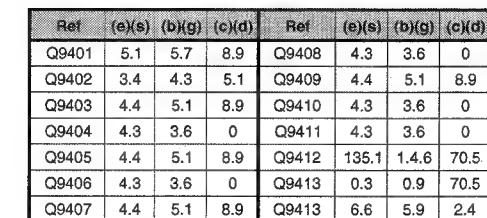
~ D2 Printed Wiring Board Conductor side ~



~ H1 Board Schematic Diagram [Front AV Input, Headphone and Control Switches] ~

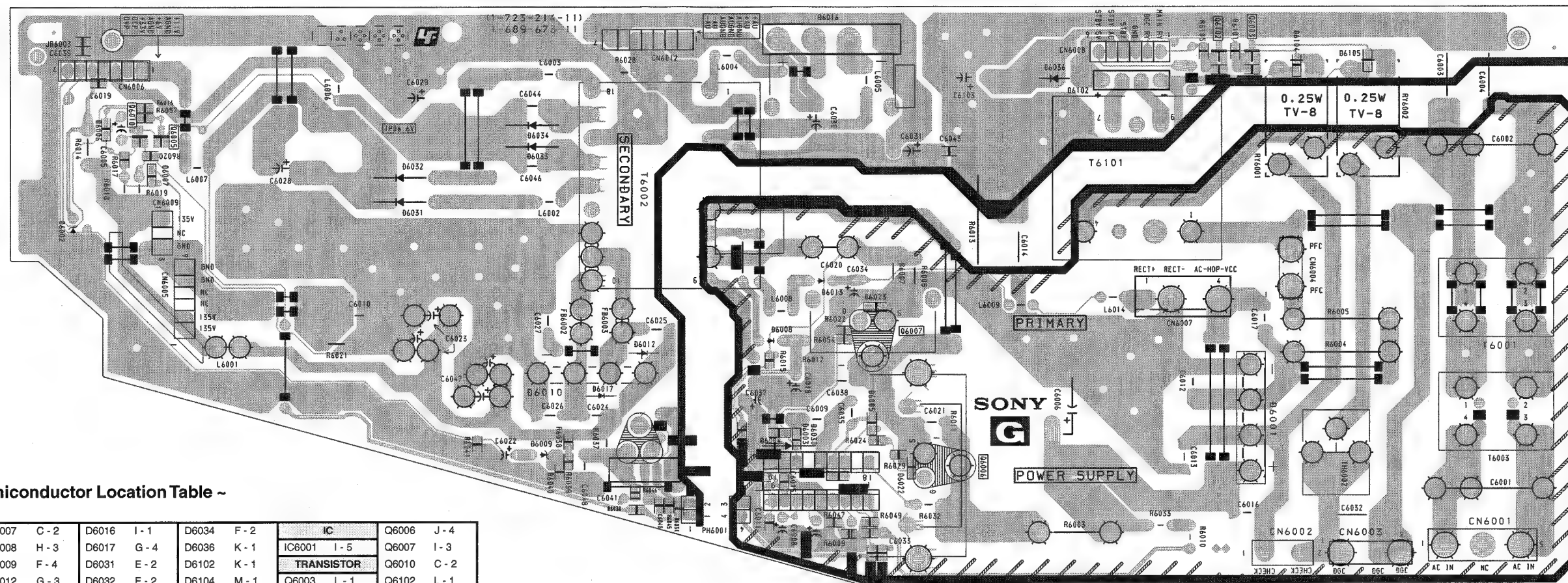


~ VM Board Voltage Table ~



A B C D E F G H I J K L M N

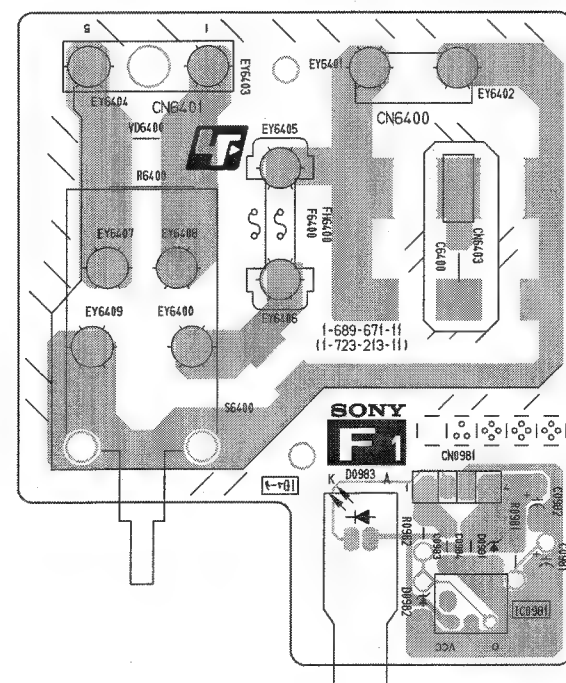
1
2
3
4
5
6
7
8
9
10
11



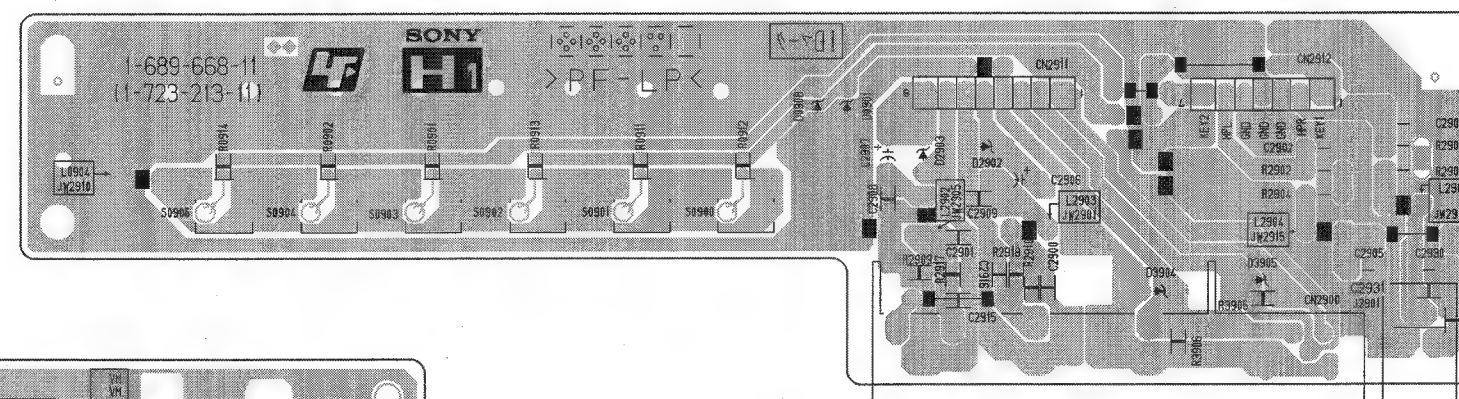
~ G Board Semiconductor Location Table ~

DIODE	D6007	C-2	D6016	I-1	D6034	F-2	IC	Q6006	J-4
D6001	L-4	D6008	H-3	D6017	G-4	D6036	K-1	IC6001	I-5
D6002	B-3	D6009	F-4	D6031	E-2	D6102	K-1	TRANSISTOR	Q6007
D6004	H-4	D6012	G-3	D6032	E-2	D6104	M-1	Q6003	L-1
D6006	C-2	D6013	I-3	D6033	F-2	D6105	M-1	Q6005	C-2
								Q6010	C-2
								Q6102	L-1

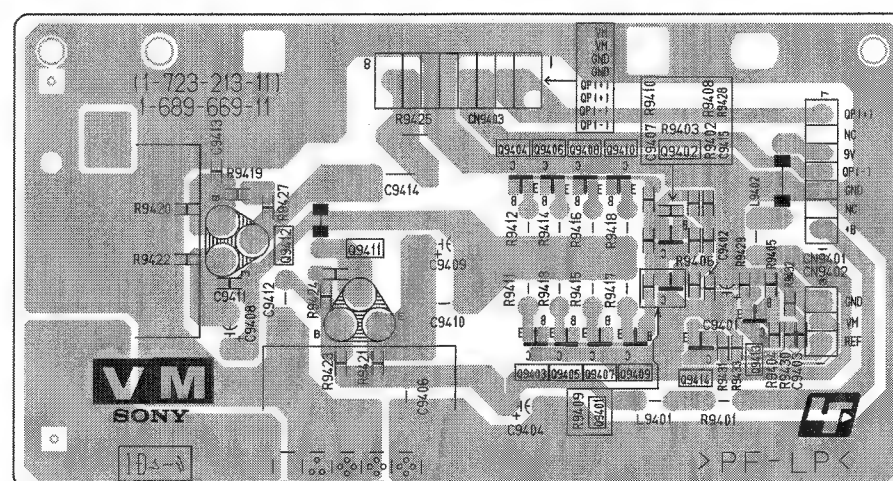
~ G Printed Wiring Board Conductor side ~



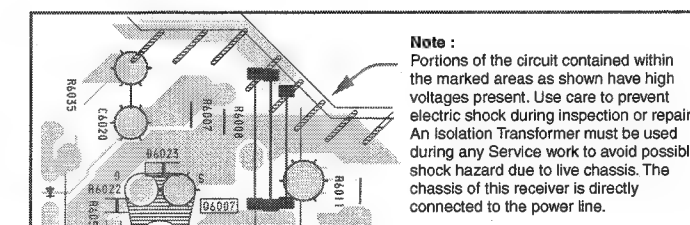
~ F1 Printed Wiring Board Conductor side ~



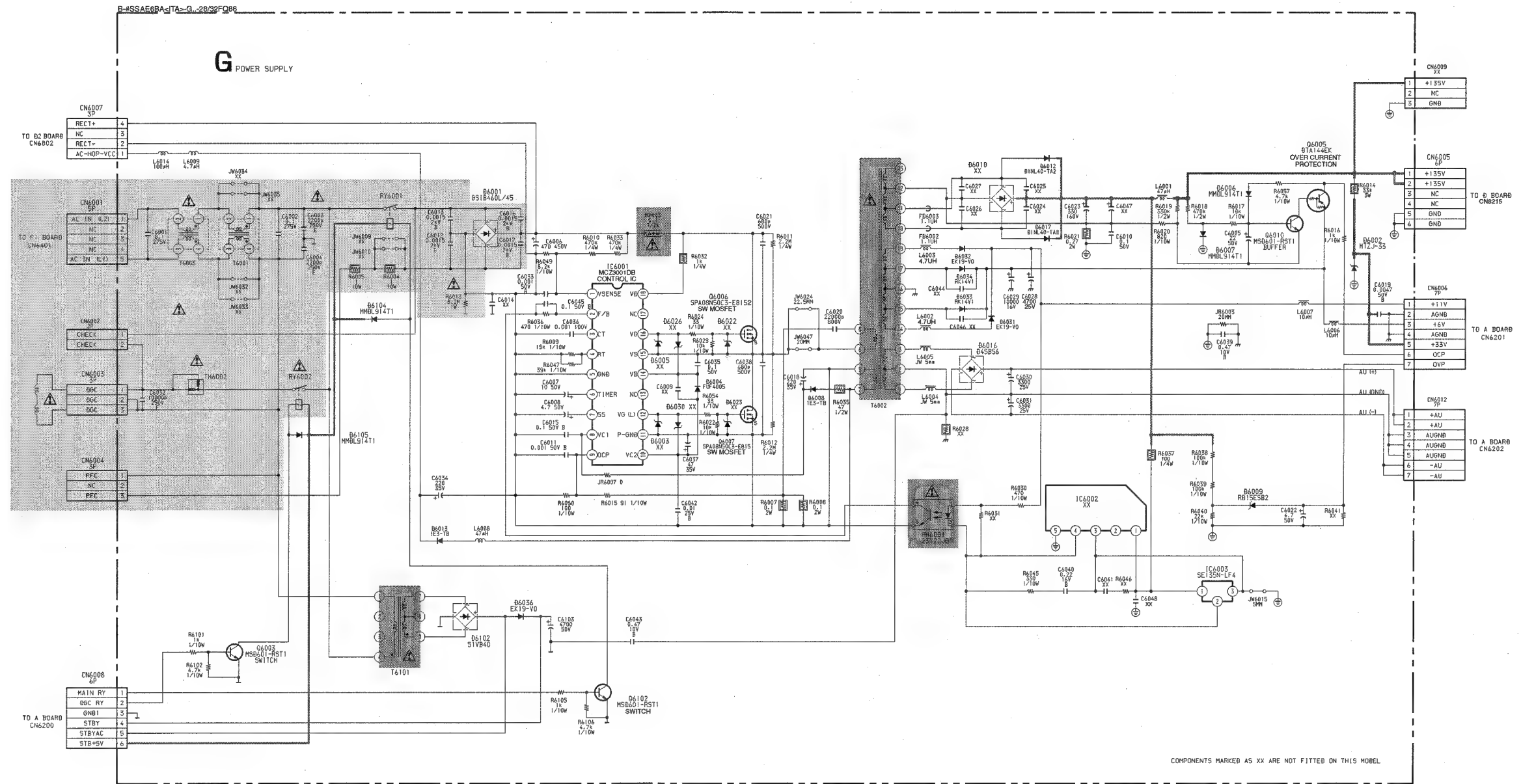
~ H1 Printed Wiring Board Conductor side ~



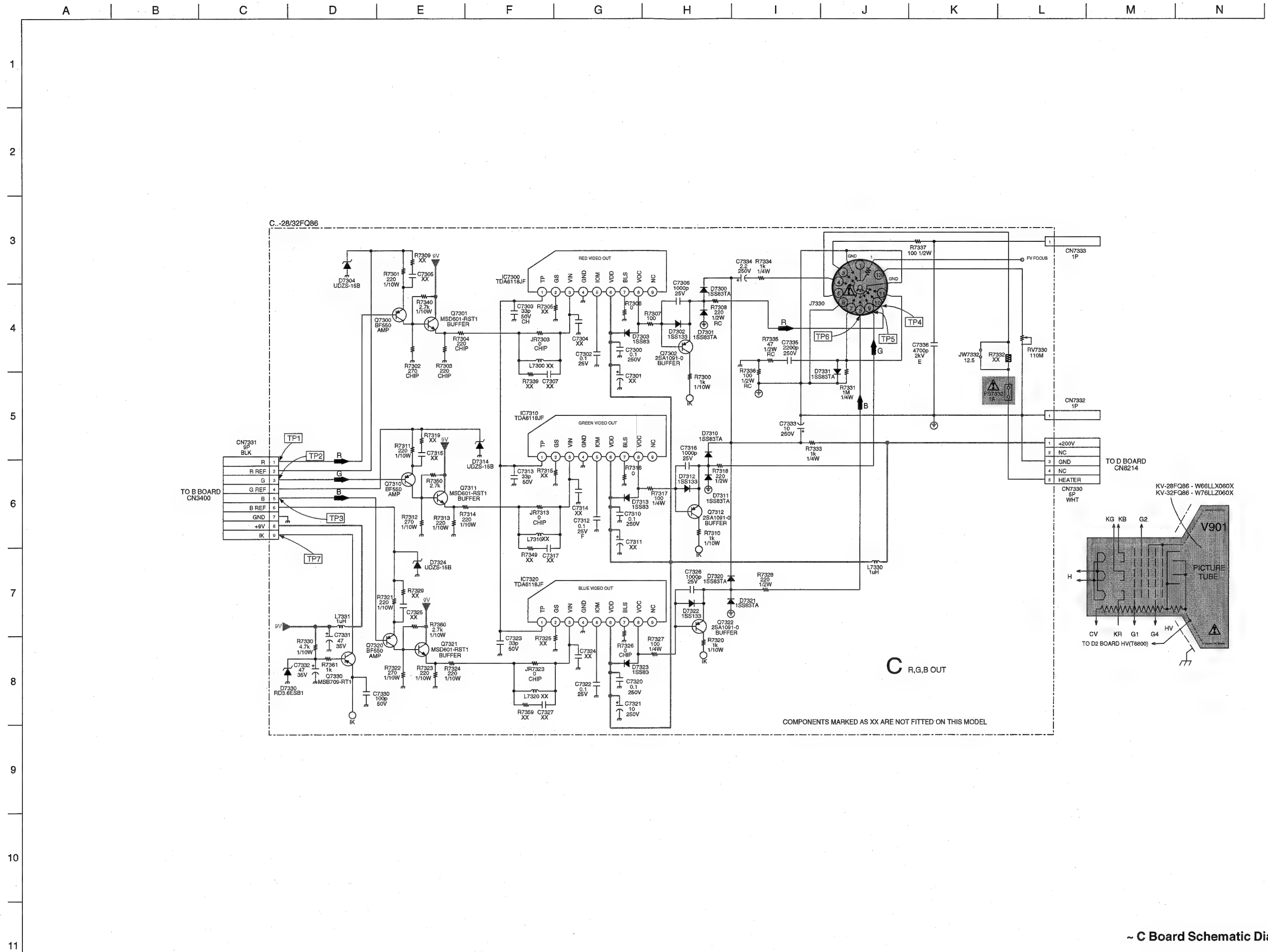
~ VM Printed Wiring Board Conductor side ~



A B C D E F G H I J K L M N

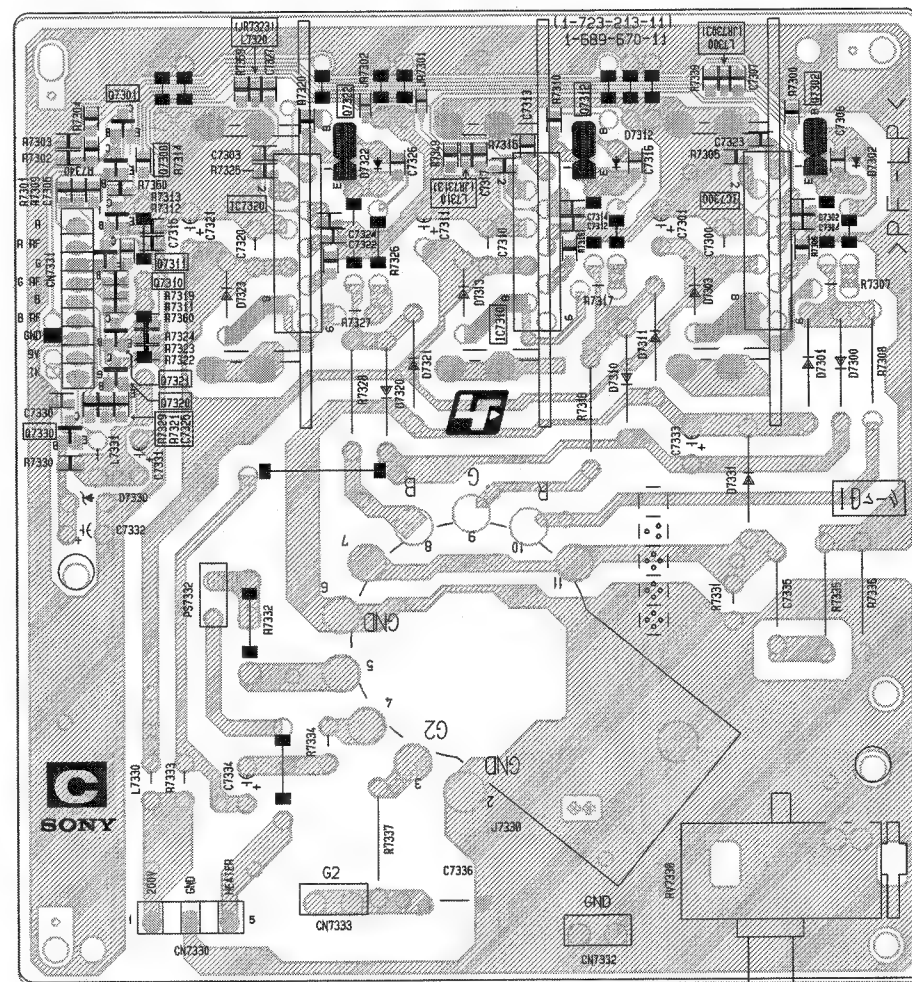


~ G Board Schematic Diagram [Power Supply] ~

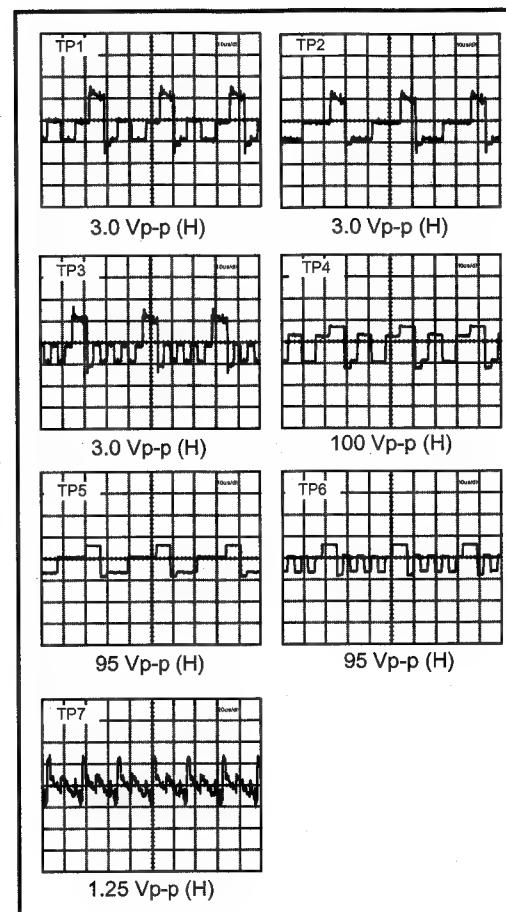


~ C Board Schematic Diagram [R-G-B Out] ~

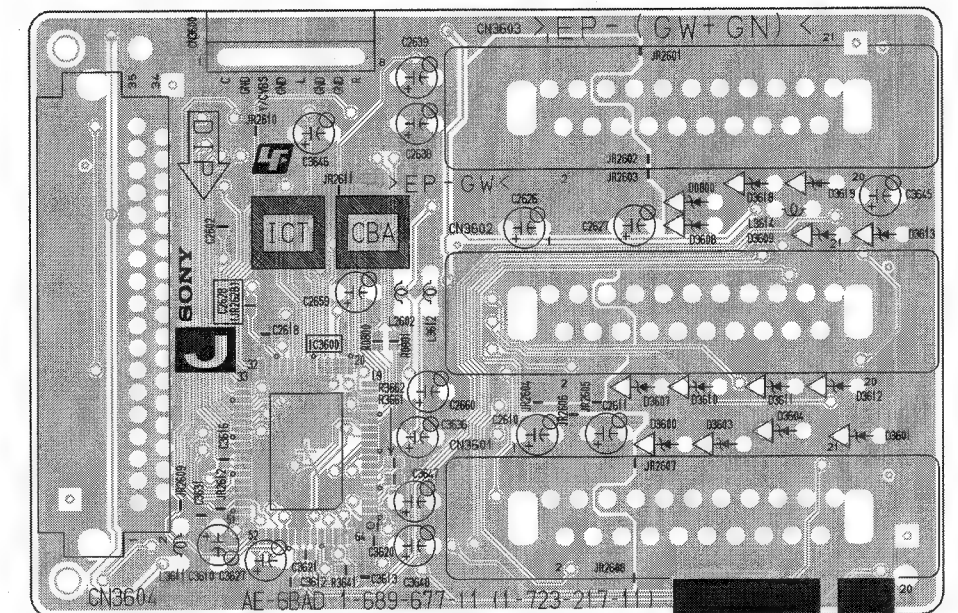
~ C Printed Wiring Board Conductor side ~



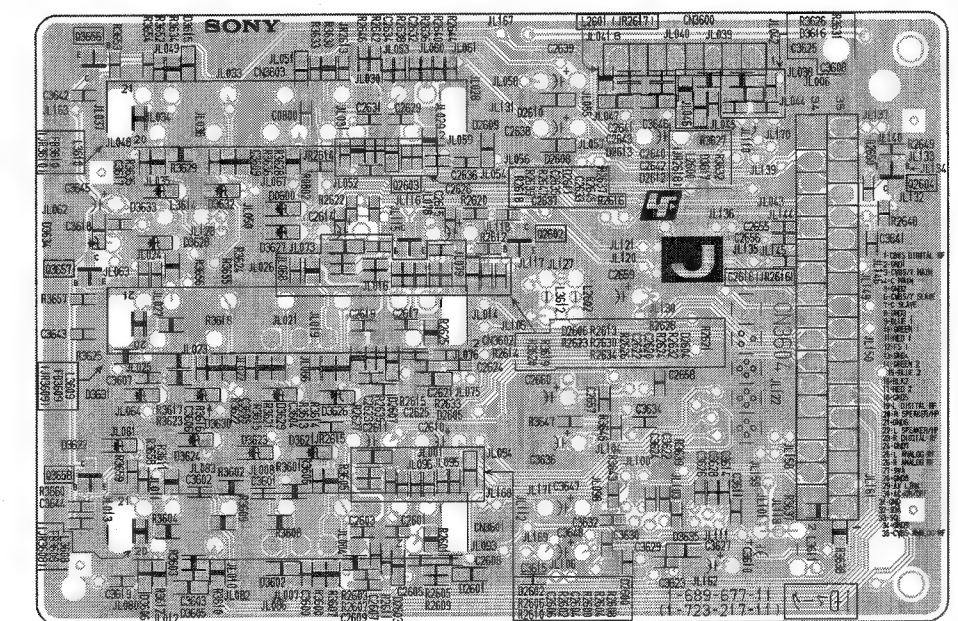
~ C Board Waveforms ~



~ J Printed Wiring Board Conductor side A ~



~ J Printed Wiring Board Conductor side B ~



~ C Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q7300	7.5	6.9	2.4	Q7312	149.5	149.56	3.8
Q7301	1.8	2.4	8.9	Q7320	7.6	6.9	2.3
Q7302	145.9	147.8	4.0	Q7321	1.7	2.3	8.9
Q7310	7.6	7.0	2.2	Q7322	148.4	150.6	3.8
Q7311	1.6	2.2	8.9	Q7330	3.6	3.2	0

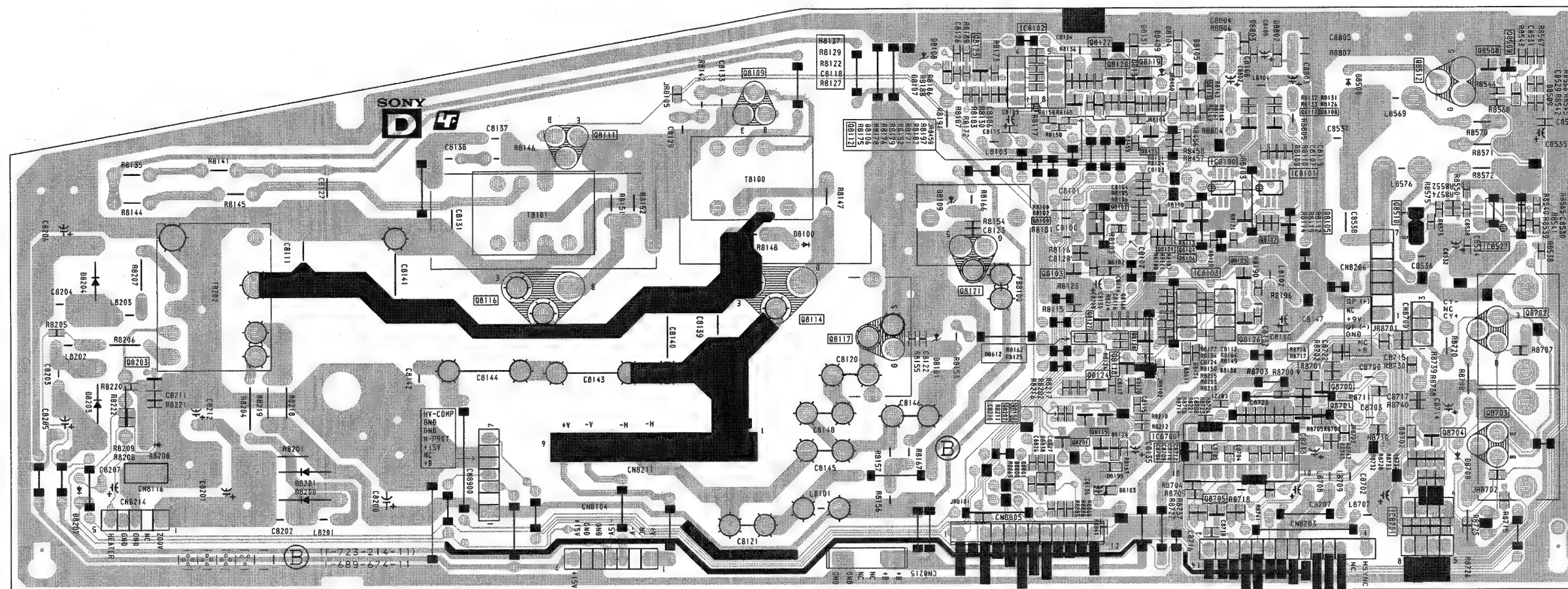
~ C Board IC Voltage Table ~

IC Voltage Table		
Ref No	Pin No	Voltage (V)
IC7300	1	5.3
	2	21.9
	3	1.9
	5	5.9
	6	205.4
	8	147.6
IC7310	1	5.1
	2	0
	3	1.7
	5	5.6
	6	205.4
	8	149.5
IC7320	1	5.1
	2	0
	3	1.8
	5	4.8
	6	205.4
	8	150.4

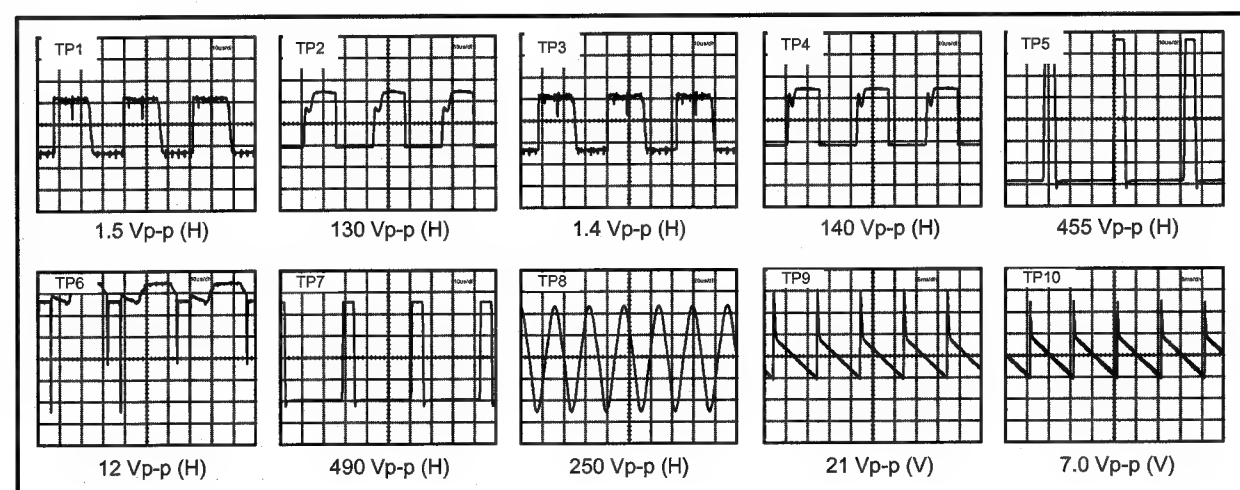


A B C D E F G H I J K L M N

~ D Printed Wiring Board Conductor side ~



~ D Board Waveforms ~



~ D Board IC Voltage Table ~

IC Voltage Table			IC Voltage Table		
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
IC8100	1	0.3	IC8102	1	3.8
	2	3.9		2	0.4
	3	3.9		3	0.4
	5	3.9		5	0.4
	6	3.6		6	0.4
	7	0.4		7	0.4
IC8101	1	0.3	IC8103	1	2.5
	2	3.9		2	1.7
	3	3.2		3	1.7
	5	3.2		5	0.9
	6	3.6		6	3.6
	7	3.5		7	1.1

~ D Board Semiconductor Voltage Table ~

Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)	Ref	(e)(s)	(b)(g)	(c)(d)
Q8100	0	0	3.0	Q8110	2.4	3.7	0	Q8125	1.2	1.1	8.9
Q8101	0	0	3.9	Q8111	0	0	62.9	Q8126	1.2	1.1	0
Q8102	0	1.0	3.6	Q8113	0.4	0	8.9	Q8127	1.1	1.5	0
Q8103	3.9	0	8.9	Q8115	8.6	8.9	0	Q8128	3.4	1.5	8.9
Q8104	0	0.3	3.7	Q8118	0	0	3.6	Q8132	0	0	3.6
Q8105	0	3.5	0.3	Q8119	1.2	0.5	0	Q8201	0	0.6	3.7
Q8106	0	0.3	3.9	Q8120	1.3	0.5	0	Q8202	0	0.9	3.7
Q8107	0	0.3	3.9	Q8121	0	1.2	135.2	Q8455	1.2	1.7	8.9
Q8108	2.4	0.3	0	Q8122	0.5	1.4	0	Q8510	8.1	7.5	0.4
Q8109	0	0	58.0	Q8123	0.5	1.3	0	Q8512	0	5.3	32.6

5-4. SEMICONDUCTORS

1E3
1SS133T-77
1SS83
D1NL20U
D1NL20U-TR
D1NL40-TA2
EL1Z
ERA22-08
GP08D
FUF4005
HZS9.1NB2
MTZJ-33B
MTZJ-4.7C

RD15ES-B2
RD39ES-B2
RD3.6ES-B2
RD5.6ESB2
RK14V1

ANODE CATHODE

ANODE CATHODE

ANODE CATHODE

1PS184-115
MM3Z4V7T1
MM3Z6V8T1
MM3Z9V1ST1
MM3Z15VT1
MMDL914T1
UDZSTE-1713B
UDZSTE-1718B
UDZSTE-173.9B
UDZSTE-175.6B
UDZSTE-176.2B
UDZSTE-179.1B
UDZSTE-17-7.5B

2SA1091-O

2SB734-34

2SC2688(5)-LK

IN GND OUT

E C B

2SK2036(TE85L)
2SA1037AK-T146
DTA144EK
DTA144EKA-T146
DTC144EKA
MSB709-RT1
MSD601-RST1
M1MA152WA-T1
UN2111

BA033T
IRF614-005
IRF614-037
IRF620
2SA2005
2SC5511

B C E

BYV98-200-RAS 15/12

CATHODE
ANODE

CA0005AD
LA6393DLL

CXA2019AQ-TL
CXA2149AQ-TL

51 33 32 20 19 1

(TOP VIEW)

CXD3804R-T6

(TOP VIEW)

D4SBS6
S1VB40

(TOP VIEW)

D2S4MF

GS1B460/45

L7809CV/LSY
STP5NK40Z(033Y)
ST2310DHI

LA6500-FA

LM393DT
LM358N

8 7 6 5 4 3 2 1

M24C32-WMN6T(A)
SN74LV00APWR
TDA2822D013TR

TOP VIEW
8 PIN SOP

MCZ3001D

18 10 9 1

MSP3411G-QA-B11

9 68 61 60 52 44 43 35 27 10 18 26

(TOP VIEW)

NJM290M

NJM3404AD-W
UPC4558G2

8 5 4 1

(TOP VIEW)

PQ1CG2032FZ

PST9143NL

1 2 3 4 5

SE135N-LF4

1 2 3

1 V OUT SENSE
2 COLLECTOR
3 GND

STV9379

1 7

TDA7482
TDA7269

1 15

TLHK5190

ANODE CATHODE

TL1431CZ-AP

UPC1093J-1-T

REF CATHODE
ANODE

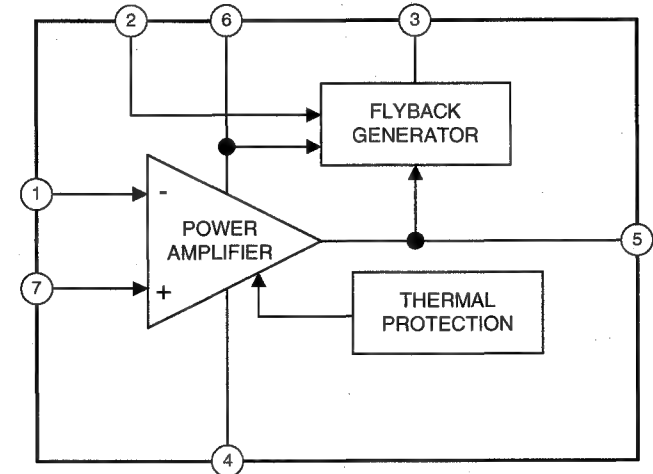
VSP9417BC3G

80 61 60 41 40 21 20 1

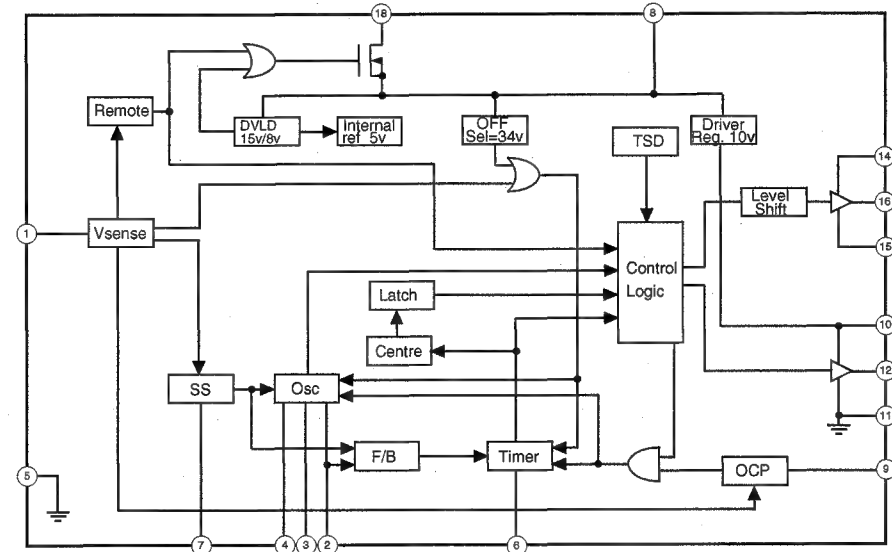
(TOP VIEW)

5-5. IC BLOCK DIAGRAMS

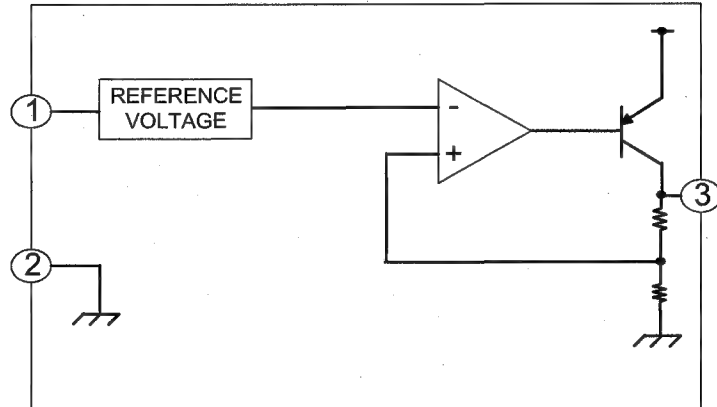
A BOARD IC5400 STV9379A



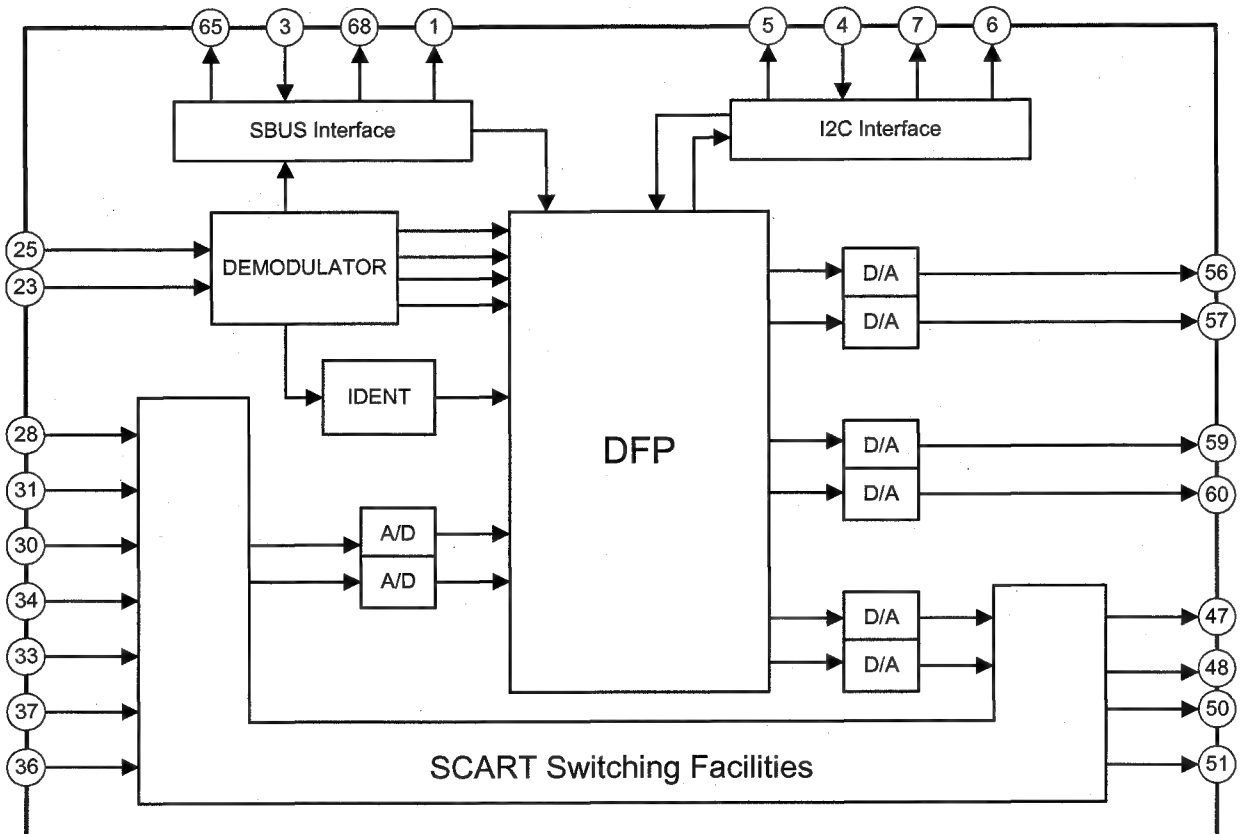
G BOARD IC6001 MCZ3001D



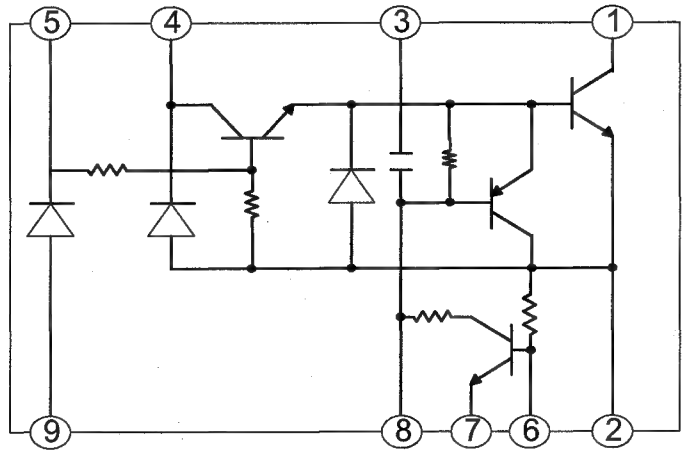
A BOARD IC6210 BA033T



A BOARD IC2000 MSP3411G



G BOARD IC6003 SE135N-LF4



SECTION 6 EXPLODED VIEWS

NOTE :

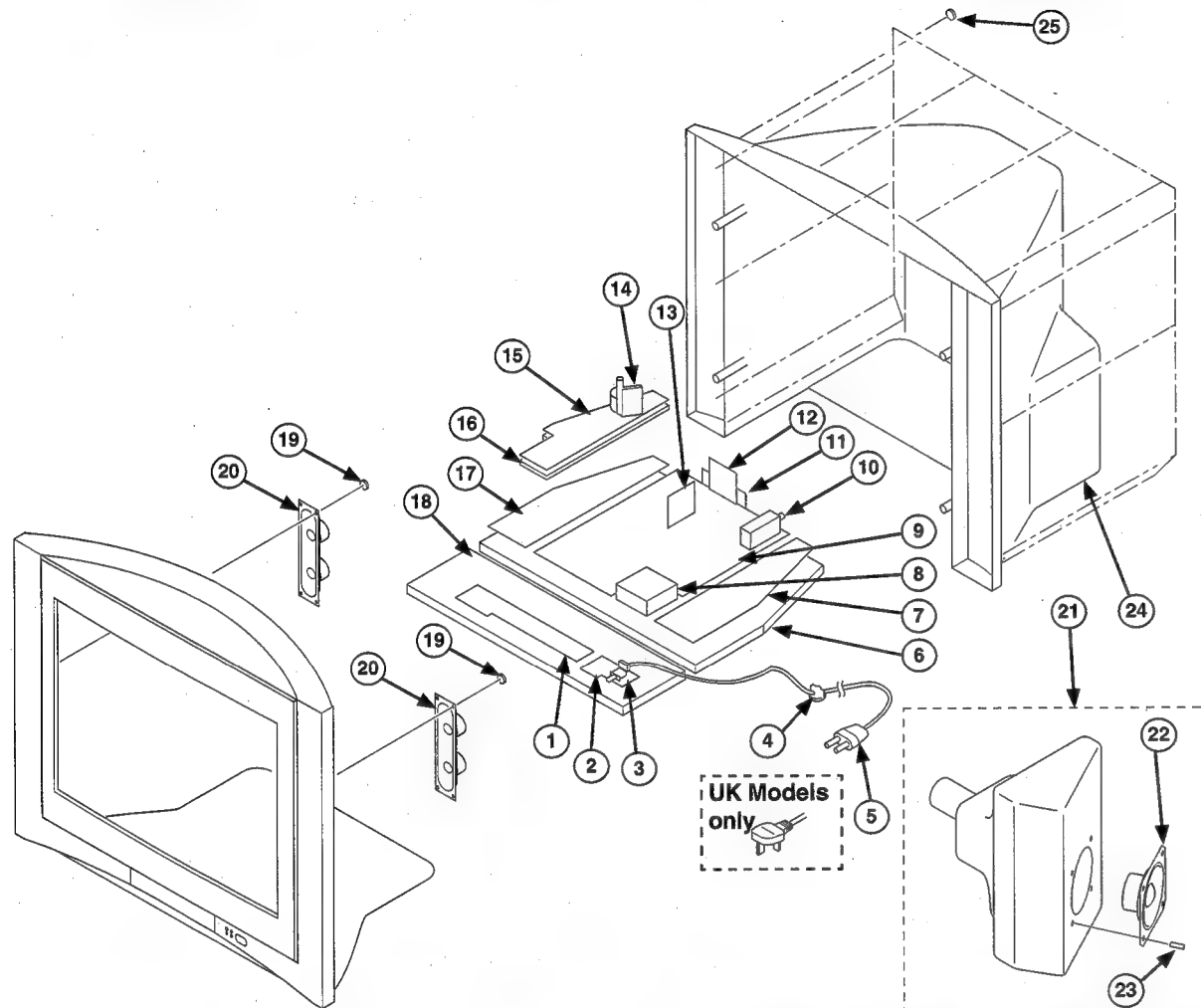
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

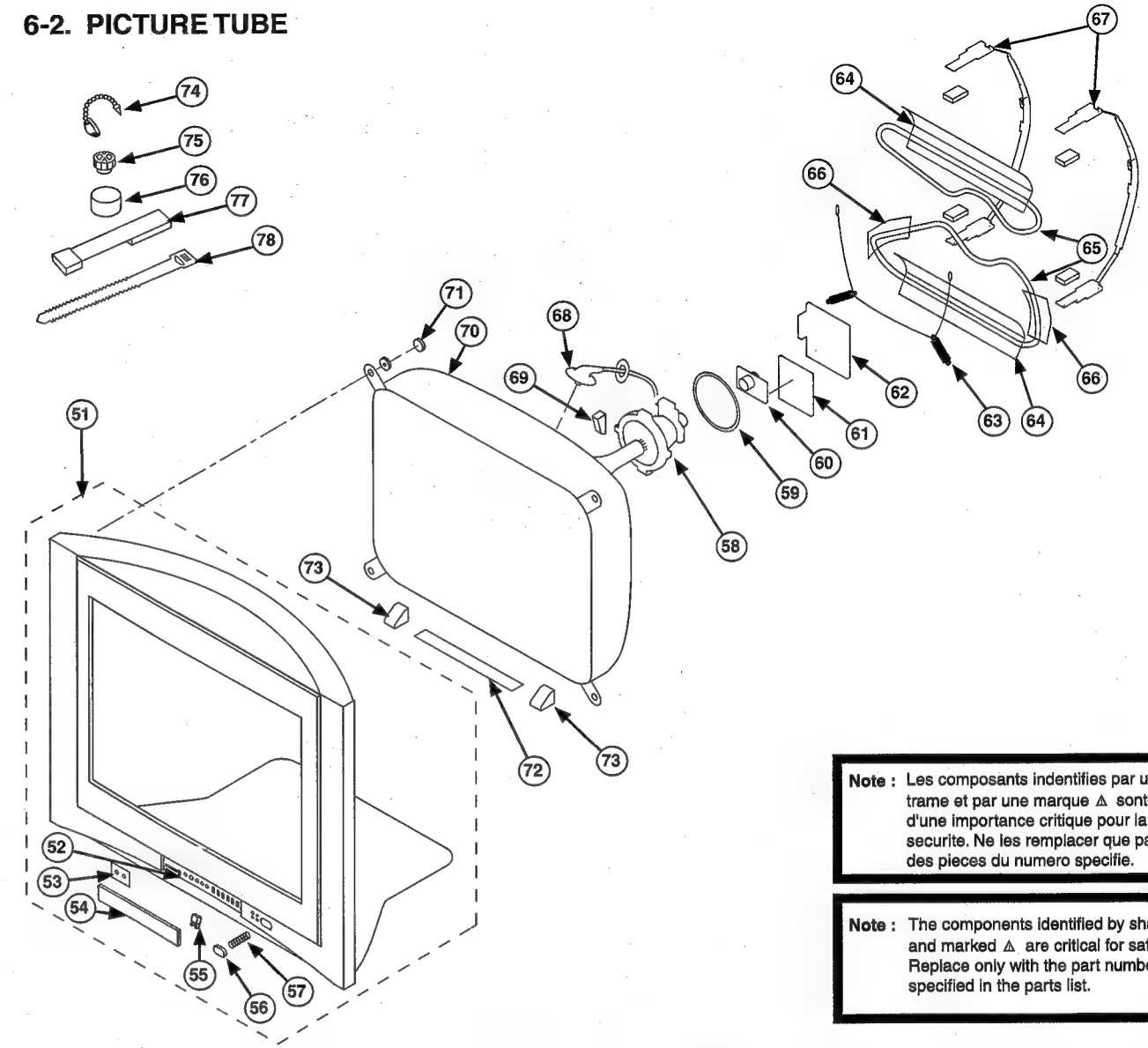
Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

6-1. CHASSIS



REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
1	*A-1405-609-A	H1 BOARD COMPLETE		14	Δ 1-453-378-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z214)	
2	*A-1405-611-A	F1 BOARD, COMPLETE				(KV-28FQ86)	
3	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)			Δ 1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z2B4)	
4	*4-202-531-01	AC CORD LOCK (SC)				(KV-32FQ86)	
5	Δ *1-783-083-11	CORD, POWER (WITH FILTER)		15	*A-1302-547-A	D2 BOARD, COMPLETE KV-28FQ86	
6	*4-095-739-02	BRACKET, MAIN			*A-1302-549-A	D2 BOARD, COMPLETE KV-32FQ86	
7	A-1302-963-A	G BOARD, COMPLETE		16	*4-095-738-01	BRACKET, D2	
8	1-456-510-11	COIL, CHOK 48.5MMH		17	*A-1302-964-A	D BOARD, COMPLETE KV-28FQ86	
9	*A-1302-961-A	A BOARD, COMPLETE (KV-28FQ86B KV-32FQ86B)			*A-1302-971-A	D BOARD, COMPLETE KV-32FQ86	
	*A-1302-962-A	A BOARD, COMPLETE (KV-28FQ86E KV-32FQ86E/K)		18	*4-093-898-11	BRACKET, H	
	*A-1302-972-A	A BOARD, COMPLETE (KV-32FQ86U)		19	4-058-870-01	SCREW (4x16)W(+)P TAPPING	
10	8-598-529-10	FRONTEND BTF-EU611 (KV-32FQ86U)		20	1-529-408-11	SPEAKER (4.2x24CM)	
	8-598-533-10	FRONTEND BTF-EC411 (KV-28FQ86E, KV-32FQ86E/K)		21	*A-1603-084-A	WOOFER COMPLETE ASSY	22-23
	8-598-535-20	FRONTEND BTF-EF411 (KV-28FQ86B, KV-32FQ86B)		22	1-529-417-11	SPEAKER (8CM)	
11	*4-100-801-01	SUPPORTER, J		23	7-685-663-71	SCREW +BVTP 4x16 TYPE2 IT-3	
12	*A-1405-623-A	J BOARD, COMPLETE		24	4-093-829-11	REAR COVER (KV-28FQ86)	
13	*A-1302-965-A	B BOARD, COMPLETE			4-093-896-31	REAR COVER (KV-32FQ86)	
				25	7-685-648-79	SCREW +BVTP 3x12 TYPE2 IT-3	

6-2. PICTURE TUBE



Note : Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces du numéro spécifié.

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
51	X-4043-188-1	BEZNET ASSY KV-28FQ86B/E	52-57	65	Δ 1-424-886-11	COIL, DEGAUSSING (KV-28FQ86)	
	X-4043-184-1	BEZNET ASSY KV-32FQ86B/E/K	52-57		Δ 1-424-888-11	COIL, DEGAUSSING (KV-32FQ86)	
	X-4041-364-2	BEZNET ASSY KV-32FQ86U	52-57	66	*4-392-534-21	CUSHION, DGC (KV-32FQ86)	
52	*4-087-533-01	MULTIBUTTON		67	*4-204-812-02	HOLDER, DGC (25") (KV-28FQ86)	
53	4-087-530-01	GUIDE, LIGHT			*4-204-768-02	HOLDER, DGC (29") (KV-32FQ86)	
54	4-093-827-01	DOOR (KV-28FQ86)		68	Δ 1-251-946-11	CAP ASSY, HIGH-VOLTAGE (KV-32FQ86)	
	4-093-897-01	DOOR (KV-32FQ86)			Δ 1-251-946-21	CAP ASSY, HIGH-VOLTAGE (KV-28FQ86)	
55	4-085-507-03	SPRING, DOOR		69	3-704-495-03	SPACER, DY	
56	4-087-527-01	POWER BUTTON		70	Δ 8-735-099-05	PICTURE TUBE (W66LLX060X) KV-28FQ86	
57	4-204-426-01	SPRING			Δ 8-735-079-05	PICTURE TUBE (W76LLZ060X) KV-32FQ86	
58	Δ 8-451-521-31	DEFLECTION YOKE (Y28RVC3-L2) (KV-28FQ86)		71	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
	Δ 1-451-480-22	DEFLECTION YOKE (Y32RVC2) (KV-32FQ86)		72	4-204-666-01	SHEET, BLOTTING	
59	1-419-363-11	COIL, NA ROTATION		73	*4-206-160-01	SUPPORT CRT (KV-28FQ86)	
60	Δ 8-453-011-11	NECK ASSY, (NA299-M)			*4-087-590-03	SUPPORT CRT (KV-32FQ86)	
61	*A-1405-620-A	VM BOARD, COMPLETE		74	4-308-870-00	CLIP, LEAD WIRE	
62	*A-1405-610-A	C BOARD, COMPLETE		75	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
63	4-369-318-21	SPRING, TENSION		76	1-452-032-00	MAGNET, DISK; 10MM Ø	
64	*4-203-390-11	CUSHION, DGC (KV-28FQ86)		77	X-4387-214-1	PERMALLOY, CORRECTION	
	*4-095-593-01	CUSHION, DGC (KV-32FQ86)		78	3-701-007-00	BAND, BINDING	

SECTION 7
ELECTRICAL PARTS LIST

D2

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Note : Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Parts indicated (XX) on the Schematic Diagram are not used in this model and therefore do not appear in the Parts List.

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
* A-1302-547-A D2 Board Complete KV-28FQ86				C8903	1-107-635-11	ELECT	4.7UF 20.00% 160V
* A-1302-549-A D2 Board Complete KV-32FQ86				C8904	1-137-150-11	FILM	0.01UF 5.00% 100V
D2 Board Common Parts				C8905	1-136-205-11	MYLAR	0.022UF 5.00% 630V
				C8907	1-126-947-11	ELECT	47UF 20.00% 35V
				C8908	1-216-809-11	METAL CHIP	100 5% 1/10W
				< CONNECTOR >			
				CN6800	1-695-915-11	TAB (CONTACT)	
				CN6801	* 1-564-510-11	PLUG, CONNECTOR 7P	
				CN6802	1-817-917-11	PIN, CONNECTOR 3P	
				CN6803	* 1-564-510-11	PLUG, CONNECTOR 7P	
				CN6804	1-695-915-11	TAB (CONTACT)	
				CN6805	* 1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
				< DIODE >			
				D6800	8-719-069-56	DIODE UDZSTE-176.2B	
				D6802	8-719-081-97	DIODE MMDL914T1	
				D6803	8-719-081-97	DIODE MMDL914T1	
				D6809	8-719-083-94	DIODE FUF4005	
				D6814	8-719-063-73	DIODE D1NL20U-TR	
				D6815	8-719-976-99	DIODE DTZ5.1B	
				D6816	8-719-081-98	DIODE MM3Z6V8T1	
				D6817	8-719-510-02	DIODE D1NS4	
				D6818	8-719-082-03	DIODE MM3Z15VT1	
				D6819	8-719-082-03	DIODE MM3Z15VT1	
				D6820	8-719-081-97	DIODE MMDL914T1	
				D6821	8-719-083-66	DIODE UDZSTE-1718B	
				D6822	8-719-081-97	DIODE MMDL914T1	
				D6823	1-535-143-71	LEAD, JUMPER (7.5MM)	
				D6824	8-719-081-97	DIODE MMDL914T1	
				D6825	8-719-081-97	DIODE MMDL914T1	
				D6826	8-719-082-00	DIODE MM3Z4V7T1	
				D6827	1-216-864-11	SHORT CHIP 0	
				D8900	8-719-948-45	DIODE ERA22-08	
				D8901	8-719-991-33	DIODE 1S8133T-77	
				< FERRITE BEAD >			
				FB6800	1-410-397-21	FERRITE	1.1UH
				FB8900	1-410-397-21	FERRITE	1.1UH
				< IC >			
				IC6800	8-759-586-17	IC TL1431CZ-AP	
				IC6801	8-759-700-07	IC NJM2903M	
				IC6802	8-759-670-30	IC MCZ3001D	
				IC6803	8-759-198-31	IC UPC1093J-1-T	
				IC6804	8-759-701-01	IC NJM2904M	
				< COIL >			
				L6800	1-428-950-31	INDUCTOR	125UH
				L6801	1-412-520-11	INDUCTOR	3.9UH

3-710-578-01 COVER, VOLUME, 6 MOLD
4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

C6800	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C6801	1-126-964-11	ELECT 10UF	20.00% 50V
C6802	1-126-964-11	ELECT 10UF	20.00% 50V
C6803	1-126-960-11	ELECT 1UF	20.00% 50V
C6804	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V
C6805	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6806	1-117-228-71	MYLAR 2.2UF	10.00% 450V
C6807	1-104-662-91	ELECT 22UF	20.00% 25V
C6808	1-126-964-11	ELECT 10UF	20.00% 50V
C6809	1-136-813-11	FILM 680PF	5.00% 100V
C6810	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6811	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C6812	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6813	1-126-947-11	ELECT 47UF	20.00% 35V
C6814	1-126-967-11	ELECT 47UF	20.00% 50V
C6815	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6816	1-136-171-00	FILM 0.33UF	5.00% 50V
C6817	1-136-497-81	FILM 0.1UF	5.00% 50V
C6818	1-162-115-00	CERAMIC 330PF	10.00% 1KV
C6819	1-165-953-11	FILM 47000PF	3% 800V
C6820	1-136-189-00	MYLAR 0.1UF	10.00% 250V
C6821	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6823	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6824	1-126-963-11	ELECT 4.7UF	20.00% 50V
C6825	1-126-927-11	ELECT 2200UF	20.00% 10V
C6826	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6827	1-115-340-11	CERAMIC CHIP 0.22UF	10.00% 25V
C6828	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V
C6829	1-126-947-11	ELECT 47UF	20.00% 35V
C6831	1-126-966-11	ELECT 33UF	20.00% 50V
C6832	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
C6833	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6834	1-126-964-11	ELECT 10UF	20.00% 50V
C6835	1-165-607-11	FILM 10000PF	3% 800V
C6836	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6837	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C6838	1-130-495-00	MYLAR 0.1UF	5.00% 50V
C6839	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C6840	1-165-319-11	CERAMIC CHIP 0.1UF	50V
C8900	1-162-129-00	CERAMIC 150PF	10.00% 2KV
C8901	1-162-131-11	CERAMIC 220PF	10.00% 2KV
C8902	1-129-898-00	FILM 0.0022UF	5.00% 630V

D2

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
L6802	1-412-520-11	INDUCTOR	3.9UH	R6829	1-245-494-21	METAL	2.2M 2% 1/4W
L8900	1-406-674-11	INDUCTOR	3.3MH	R6830	1-249-431-11	CARBON	15K 5% 1/4W
< PHOTOCOUPLER >				R6832	1-245-494-21	METAL	2.2M 2% 1/4W
PH6800	6-600-187-01	PHOTO COUPLER	PC123Y22J00F	R6833	1-249-377-11	CARBON	0.47 5% 1/4W
PH6801	6-600-187-01	PHOTO COUPLER	PC123Y22J00F	R6834	1-243-979-21	METAL OXIDE	0.1 5% 2W
< TRANSISTOR >				R6835	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q6800	8-729-010-29	TRANSISTOR MSD601-RST1		R6836	1-216-864-11	SHORT CHIP	0
Q6801	8-729-010-29	TRANSISTOR MSD601-RST1		R6837	1-249-419-11	CARBON	1.5K 5% 1/4W
Q6802	6-550-526-11	TRANSISTOR 2SK2842(LBS2SONY)		R6838	1-260-095-11	CARBON	470 5% 1/2W
Q6803	6-550-526-11	TRANSISTOR 2SK2842(LBS2SONY)		R6839	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q6804	8-729-010-05	TRANSISTOR MSB709-RT1		R6840	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
Q6806	8-729-421-22	TRANSISTOR UN2211		R6841	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
Q6807	8-729-010-05	TRANSISTOR MSB709-RT1		R6842	1-218-857-11	METAL CHIP	2.7K 0.5% 1/10W
Q6808	8-729-421-22	TRANSISTOR UN2211		R6843	1-216-863-11	METAL CHIP	3.3M 5% 1/10W
Q6809	8-729-010-05	TRANSISTOR MSB709-RT1		R6844	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
Q6810	8-729-010-29	TRANSISTOR MSD601-RST1		R6845	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
Q6811	8-729-901-06	TRANSISTOR DTA144EK		R6846	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q6812	8-729-010-05	TRANSISTOR MSB709-RT1		R6848	1-216-853-11	METAL CHIP	470K 5% 1/10W
Q6813	8-729-010-29	TRANSISTOR MSD601-RST1		R6849	1-216-834-11	METAL CHIP	12K 5% 1/10W
Q8900	8-729-010-29	TRANSISTOR MSD601-RST1		R6852	1-216-809-11	METAL CHIP	100 5% 1/10W
Q8901	6-550-700-01	TRANSISTOR STP5NK40Z(033Y)		R6853	1-216-833-11	METAL CHIP	10K 5% 1/10W
< RESISTOR >				R6854	1-216-849-11	METAL CHIP	220K 5% 1/10W
R6800	1-216-837-11	METAL CHIP	22K 5% 1/10W	R6855	1-216-797-11	METAL CHIP	10 5% 1/10W
R6801	1-216-849-11	METAL CHIP	220K 5% 1/10W	R6857	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6802	1-216-841-11	METAL CHIP	47K 5% 1/10W	R6858	1-216-837-11	METAL CHIP	22K 5% 1/10W
R6803	1-216-837-11	METAL CHIP	22K 5% 1/10W	R6859	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6804	1-247-843-11	CARBON	3.3K 5% 1/4W	R6860	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6805	1-218-875-11	METAL CHIP	15K 0.5% 1/10W	R6861	1-215-485-00	METAL	470K 1% 1/4W
R6807	1-218-845-11	METAL CHIP	820 0.5% 1/10W	R6862	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6808	1-202-933-61	FUSIBLE	0.1 10% 1/2W	R6863	1-218-853-11	METAL CHIP	1.8K 0.5% 1/10W
R6809	1-218-874-11	METAL CHIP	13K 0.5% 1/10W	R6865	1-249-411-11	CARBON	330 5% 1/4W
R6810	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W	R6866	1-219-749-51	METAL	10K 5% 1/2W
R6811	1-535-303-00	LEAD, JUMPER (5.0MM)		R6867	1-215-485-00	METAL	470K 1% 1/4W
R6812	1-245-478-21	METAL	470K 1% 1/4W	R6869	1-218-865-11	METAL CHIP	5.6K 0.5% 1/10W
R6813	1-245-478-21	METAL	470K 1% 1/4W	R6870	1-219-750-91	METAL	22K 5% 1/2W
R6814	1-218-912-11	METAL CHIP	510K 0.5% 1/10W	R6871	1-216-845-11	METAL CHIP	100K 5% 1/10W
R6815	1-216-864-11	SHORT CHIP	0	R6873	1-218-887-11	METAL CHIP	47K 0.5% 1/10W
R6816	1-218-839-11	METAL CHIP	470 0.5% 1/10W	R6874	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R6817	1-249-393-11	CARBON	10 5% 1/4W	R6875	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6818	1-216-803-11	METAL CHIP	33 5% 1/10W	R6877	1-215-433-00	METAL	3.3K 1% 1/4W
R6819	1-218-823-11	METAL CHIP	100 0.5% 1/10W	R6878	1-215-447-00	METAL	12K 1% 1/4W
R6820	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6879	1-215-447-00	METAL	12K 1% 1/4W
R6821	1-216-837-11	METAL CHIP	22K 5% 1/10W	R6880	1-215-447-00	METAL	12K 1% 1/4W
R6823	1-249-393-11	CARBON	10 5% 1/4W	R6881	1-215-447-00	METAL	12K 1% 1/4W
R6824	1-218-897-11	METAL CHIP	120K 0.5% 1/10W	R6883	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R6825	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6884	1-216-821-11	METAL CHIP	1K 5% 1/10W
R6826	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R8901	1-260-123-11	CARBON	100K 5% 1/2W
				R8904	1-249-429-11	CARBON	10K 5% 1/4W
				R8907	1-260-123-11	CARBON	100K 5% 1/2W
				R8908	1-260-123-11	CARBON	100K 5% 1/2W

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R8909	1-260-123-11	CARBON	100K 5% 1/2W	C1107	1-126-933-11	ELECT	100UF 20.00% 16V
R8910	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	C1108	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
R8911	1-216-821-11	METAL CHIP	1K 5% 1/10W	C1109	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
R8912	1-216-833-11	METAL CHIP	10K 5% 1/10W	C1300	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V
R8913	1-216-809-11	METAL CHIP	100K 5% 1/10W	C1302	1-216-864-11	SHORT CHIP	0
< RESISTOR VARIABLE >				C1303	1-162-928-11	CERAMIC CHIP 120PF	5.00% 50V
RV6801	1-225-627-91	RES, VAR, ADJ, CERMET 2K		C1304	1-216-864-11	SHORT CHIP	0
< SPARK GAP >				C1307	1-125-891-11	CERAMIC CHIP 0.47UF	10.00% 10V
SG6800	1-517-499-21	GAP, SPARK		C2000	1-126-947-11	ELECT	47UF 20.00% 35V
< TRANSFORMER >				C2001	1-164-156-11	CERAMIC CHIP 0.1UF	25V
T8900	1-437-690-11	TRANSFORMER, FERRITE (DFT)		C2002	1-126-947-11	ELECT	47UF 20.00% 35V
Variant Parts KV-28FQ86				C2004	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
< RESISTOR >				C2005	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
R8900	1-216-486-21	METAL OXIDE	8.2K 5% 3W	C2006	1-126-947-11	ELECT	47UF 20.00% 35V
R8902	1-216-486-21	METAL OXIDE	8.2K 5% 3W	C2007	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
R8903	1-243-616-21	METAL OXIDE	6.8K 5% 3W	C2009	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
R8905	1-216-486-21	METAL OXIDE	8.2K 5% 3W	C2010	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
R8906	1-216-486-21	METAL OXIDE	8.2K 5% 3W	C2011	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
< TRANSFORMER >				C2012	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
T6800 Δ	1-453-378-21	TRANSFORMER ASSY FLYBACK NX-6020//Z214		C2013	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V
Variant Parts KV-32FQ86				C2014	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
< RESISTOR >				C2016	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
R8900	1-243-618-21	METAL OXIDE	10K 5% 3W	C2017	1-126-964-11	ELECT	10UF 20.00% 50V
R8902	1-243-619-21	METAL OXIDE	12K 5% 3W	C2018	1-126-964-11	ELECT	10UF 20.00% 50V
R8903	1-243-619-21	METAL OXIDE	12K 5% 3W	C2019	1-126-947-11	ELECT	47UF 20.00% 35V
R8905	1-243-619-21	METAL OXIDE	12K 5% 3W	C2020	1-126-947-11	ELECT	47UF 20.00% 35V
R8906	1-243-618-21	METAL OXIDE	10K 5% 3W	C2021	1-164-156-11	CERAMIC CHIP 0.1UF	25V
< TRANSFORMER >				C2022	1-126-964-11	ELECT	10UF 20.00% 50V
T6800 Δ	1-453-444-21	TRANSFORMER ASSY FLYBACK NX-6020//Z2B4		C2023	1-164-156-11	CERAMIC CHIP 0.1UF	25V
* A-1302-961-A A Board Complete KV-28FQ86B & KV-32FQ86B				C2024	1-126-964-11	ELECT	10UF 20.00% 50V
* A-1302-962-A A Board Complete KV-28FQ86E, KV32FQ86E & KV32FQ86K				C2026	1-164-156-11	CERAMIC CHIP 0.1UF	25V
* A-1302-972-A A Board Complete KV-32FQ86U				C2027	1-164-156-11	CERAMIC CHIP 0.1UF	25V
A Board Common Parts				C2028	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
< CAPACITOR >				C2029	1-162-906-11	CERAMIC CHIP 1.5PF	0.25PF 50V
C1103	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2030	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1104	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C2031	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1105	1-126-967-11	ELECT	47UF 20.00% 50V	C2032	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C1106	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	C2040	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
				C2200	1-126-960-11	ELECT	1UF 20.00% 50V
				C2201	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C2202	1-126-960-11	ELECT	1UF 20.00% 50V
				C2203	1-126-963-11	ELECT	4.7UF 20.00% 50V
				C2204	1-126-960-11	ELECT	1UF 20.00% 50V
				C2205	1-126-960-11	ELECT	1UF 20.00% 50V
				C2206	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
				C2207	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
				C2300	1-126-935-11	ELECT	470UF 20.00% 16V
				C2301	1-126-947-11	ELECT	47UF 20.00% 35V
				C2302	1-126-947-11	ELECT	47UF 20.00% 35V
				C2303	1-126-947-11	ELECT	47UF 20.00% 35V

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C2304	1-126-947-11	ELECT 47UF	20.00% 35V	C5202	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2305	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C5203	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2306	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C5204	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2400	1-136-175-00	FILM 0.68UF	5.00% 50V	C5205	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2401	1-165-128-11	CERAMIC CHIP 0.22UF	16V	C5206	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2402	1-163-135-00	CERAMIC CHIP 560PF	5.00% 50V	C5207	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V
C2403	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C5208	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2404	1-162-966-11	CERAMIC CHIP 0.0022UF	10.00% 50V	C5209	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2405	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	C5210	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2406	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C5214	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2407	1-164-505-11	CERAMIC CHIP 2.2UF	16V	C5215	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2408	1-126-963-11	ELECT 4.7UF	20.00% 50V	C5217	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2409	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C5218	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V
C2410	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5219	1-126-964-11	ELECT 10UF	20.00% 50V
C2411	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5403	1-126-941-11	ELECT 470UF	20.00% 25V
C2412	1-126-943-11	ELECT 2200UF	20.00% 25V	C5404	1-102-228-00	CERAMIC 470PF	10.00% 500V
C2413	1-126-943-11	ELECT 2200UF	20.00% 25V	C5405	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2414	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5406	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C2500	1-107-914-11	ELECT 1000UF	20.00% 50V	C5407	1-126-941-11	ELECT 470UF	20.00% 25V
C2501	1-107-914-11	ELECT 1000UF	20.00% 50V	C5409	1-126-968-11	ELECT 100UF	20.00% 50V
C2502	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5410	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2503	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5411	1-137-401-11	MYLAR 0.22UF	5.00% 100V
C2504	1-126-959-11	ELECT 0.47UF	20.00% 50V	C5412	1-106-220-00	MYLAR 0.1UF	10.00% 100V
C2505	1-107-888-11	ELECT 47UF	20.00% 25V	C5413	1-130-785-11	MYLAR 0.47UF	5.00% 100V
C2506	1-107-888-11	ELECT 47UF	20.00% 25V	C6200	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2507	1-126-959-11	ELECT 0.47UF	20.00% 50V	C6203	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2508	1-115-339-11	CERAMIC CHIP 0.1UF	10.00% 50V	C6206	1-104-665-11	ELECT 100UF	20.00% 25V
C2512	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C6208	1-126-767-11	ELECT 1000UF	20.00% 16V
C2513	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C6209	1-104-665-11	ELECT 100UF	20.00% 25V
C2514	1-107-907-11	ELECT 22UF	20.00% 50V	C6217	1-126-767-11	ELECT 1000UF	20.00% 16V
C2603	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C6223	1-136-497-81	FILM 0.1UF	5.00% 50V
C2619	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	C6226	1-128-942-31	ELECT 1000UF	20% 6.3V
C5103	1-126-960-11	ELECT 1UF	20.00% 50V	C6229	1-126-935-11	ELECT 470UF	20.00% 16V
C5106	1-126-933-11	ELECT 100UF	20.00% 16V	C6234	1-136-497-81	FILM 0.1UF	5.00% 50V
C5109	1-126-964-11	ELECT 10UF	20.00% 50V	C6235	1-128-550-11	ELECT 2200UF	20.00% 50V
C5110	1-126-947-11	ELECT 47UF	20.00% 35V	C6236	1-128-942-31	ELECT 1000UF	20% 6.3V
C5111	1-126-964-11	ELECT 10UF	20.00% 50V	C6237	1-126-767-11	ELECT 1000UF	20.00% 16V
C5112	1-126-964-11	ELECT 10UF	20.00% 50V	C6238	1-136-497-81	FILM 0.1UF	5.00% 50V
C5116	1-126-964-11	ELECT 10UF	20.00% 50V	C6239	1-104-665-11	ELECT 100UF	20.00% 25V
C5117	1-126-947-11	ELECT 47UF	20.00% 35V	C6240	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5118	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6241	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5119	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C6242	1-104-665-11	ELECT 100UF	20.00% 25V
C5120	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C6243	1-104-665-11	ELECT 100UF	20.00% 25V
C5121	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	C6244	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5122	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6245	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5123	1-126-947-11	ELECT 47UF	20.00% 35V	C6246	1-104-665-11	ELECT 100UF	20.00% 25V
C5124	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C6247	1-104-665-11	ELECT 100UF	20.00% 25V
C5125	1-126-964-11	ELECT 10UF	20.00% 50V	C6248	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5126	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	C6249	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C5201	1-126-947-11	ELECT 47UF	20.00% 35V	C6250	1-104-665-11	ELECT 100UF	20.00% 25V

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C6251	1-104-665-11	ELECT 100UF	20.00% 25V	D5404	8-719-110-41	DIODE RD15ESB2	
C6252	1-126-963-11	ELECT 4.7UF	20.00% 50V	D5405	8-719-908-03	DIODE GP08D	
C6253	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D6201	8-719-022-97	DIODE D2S4MF	
C6254	1-137-374-11	MYLAR 0.047UF	5.00% 50V	D6203	8-719-063-70	DIODE D1NL20U	
C6255	1-126-935-11	ELECT 470UF	20.00% 16V	D6204	8-719-063-70	DIODE D1NL20U	
C6256	1-126-947-11	ELECT 47UF	20.00% 35V	D6205	8-719-050-38	DIODE M1MA152WK-T1	
< CONNECTOR >				D6206	8-719-081-97	DIODE MMDL914T1	
CN0002	* 1-564-507-11	PLUG, CONNECTOR 4P		D6207	8-719-081-97	DIODE MMDL914T1	
CN2300	* 1-564-510-11	PLUG, CONNECTOR 7P		D6208	8-719-081-97	DIODE MMDL914T1	
CN2301	* 1-564-509-11	PLUG, CONNECTOR 6P		D6209	8-719-081-97	DIODE MMDL914T1	
CN2302	* 1-816-979-51	PLUG, CONNECTOR 8P		D6210	8-719-110-41	DIODE RD15ESB2	
CN2400	* 1-816-974-51	PLUG, CONNECTOR 3P		D6211	8-719-080-59	DIODE EK19-V0	
CN2501	* 1-564-507-11	PLUG, CONNECTOR 4P		D6213	8-719-022-97	DIODE D2S4MF	
CN3000	* 1-564-510-11	PLUG, CONNECTOR 7P		D6214	8-719-056-84	DIODE UDZ-TE-17-7.5B	
CN3001	1-691-773-11	PLUG (MICRO CONNECTOR) 11P		< FERRITE BEAD >			
CN3002	* 1-817-115-11	CONNECTOR, BOARD TO BOARD 35P		FB2400	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN3004	* 1-816-974-51	PLUG, CONNECTOR 3P		FB2401	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN3008	1-691-775-11	PLUG (MICRO CONNECTOR) 13P		FB6201	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN5207	* 1-818-034-11	DIN CONNECTOR PLUG 96P		FB6204	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN5209	* 1-564-520-11	PLUG, CONNECTOR 5P		< IC >			
CN6200	* 1-816-977-51	PLUG, CONNECTOR 6P		IC2000	6-701-031-11	IC MSP3411G-QA-B11	
CN6201	* 1-564-510-11	PLUG, CONNECTOR 7P		IC2200	8-759-100-96	IC UPC4558G2	
CN6202	* 1-564-510-11	PLUG, CONNECTOR 7P		IC2300	8-759-576-76	IC TDA2822D013TR	
CN6203	1-695-915-11	TAB (CONTACT)		IC2400	8-759-544-25	IC TDA7482	
CN6900	* 1-564-510-11	PLUG, CONNECTOR 7P		IC2500	6-704-807-01	IC TDA7269	
< DIODE >				IC5102	8-759-325-48	IC CA0005AD	
D2002	8-719-081-97	DIODE MMDL914T1		IC5104	8-759-803-42	IC LA6500-FA	
D2200	8-719-929-15	DIODE HZS9.1NB2		IC5400	8-759-696-71	IC STV9379A	
D2201	8-719-929-15	DIODE HZS9.1NB2		IC6200	8-759-648-20	IC L7805CV/LSY	
D2202	8-719-050-38	DIODE M1MA152WK-T1		IC6202	8-759-640-19	IC PQ1CG2032FZ	
D2500	8-719-050-38	DIODE M1MA152WK-T1		IC6204	8-759-648-19	IC L7809CV/LSY	
D5100	8-719-081-97	DIODE MMDL914T1		IC6207	8-759-640-19	IC PQ1CG2032FZ	
D5103	8-719-110-86	DIODE RD39ESB		IC6210	8-759-445-59	IC BA033T	
D5104	8-719-976-99	DIODE DTZ5.1B		IC6211	6-701-848-01	IC KF25BDT	
D5200	8-719-081-97	DIODE MMDL914T1		IC6212	8-759-474-09	IC SI-8050S-LF1101	
D5201	8-719-081-98	DIODE MM3Z6V8T1		< SOCKET >			
D5202	8-719-081-97	DIODE MMDL914T1		J2200	1-784-632-11	JACK, PIN 2P	
D5203	8-719-081-97	DIODE MMDL914T1		< COIL >			
D5204	8-719-081-97	DIODE MMDL914T1		L1100	1-414-760-21	FERRITE 0UH	
D5205	8-719-081-97	DIODE MMDL914T1		L1101	1-414-760-21	FERRITE 0UH	
D5206	8-719-081-97	DIODE MMDL914T1		L1102	1-408-615-31	INDUCTOR 100UH	
D5207	8-719-081-97	DIODE MMDL914T1		L1103	1-408-603-31	INDUCTOR 10UH	
D5208	8-719-081-97	DIODE MMDL914T1		L1104	1-412-979-21	INDUCTOR 1UH	
D5209	8-719-081-97	DIODE MMDL914T1		L1300	1-535-303-00	LEAD, JUMPER (5.0MM)	
D5210	8-719-081-97	DIODE MMDL914T1		L1301	1-408-602-31	INDUCTOR 8.2UH	
D5211	8-719-081-97	DIODE MMDL914T1		L2000	1-414-928-21	INDUCTOR 1UH	
D5212	8-719-081-97	DIODE MMDL914T1					

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
L2001	1-414-928-21	INDUCTOR	1UH	Q5204	8-729-010-05	TRANSISTOR MSB709-RT1		R1100	1-216-864-11	SHORT CHIP	0	R2307	1-216-837-11	METAL CHIP	22K 5% 1/10W
L2011	1-414-928-21	INDUCTOR	1UH	Q5205	8-729-010-29	TRANSISTOR MSD601-RST1		R1102	1-216-864-11	SHORT CHIP	0	R2308	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
L2400	1-406-977-21	INDUCTOR	100UH	Q5206	8-729-010-05	TRANSISTOR MSB709-RT1		R1103	1-216-864-11	SHORT CHIP	0	R2309	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
L2401	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q5207	8-729-010-29	TRANSISTOR MSD601-RST1		R1105	1-216-864-11	SHORT CHIP	0	R2310	1-249-389-11	CARBON	4.7 5% 1/4W
L2402	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q5208	8-729-010-29	TRANSISTOR MSD601-RST1		R1106	1-216-864-11	SHORT CHIP	0	R2311	1-216-809-11	METAL CHIP	100 5% 1/10W
L2500	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q5209	8-729-010-29	TRANSISTOR MSD601-RST1		R1108	1-216-864-11	SHORT CHIP	0	R2312	1-249-389-11	CARBON	4.7 5% 1/4W
L2501	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q5210	8-729-010-29	TRANSISTOR MSD601-RST1		R1110	1-216-836-11	METAL CHIP	18K 5% 1/10W	R2313	1-216-813-11	METAL CHIP	220 5% 1/10W
L5400	1-412-525-31	INDUCTOR	10UH	Q5211	8-729-010-29	TRANSISTOR MSD601-RST1		R1111	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2314	1-216-809-11	METAL CHIP	100 5% 1/10W
L5401	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q5404	8-729-926-76	TRANSISTOR IRF620		R1300	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2315	1-216-813-11	METAL CHIP	220 5% 1/10W
L5402	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q6201	8-729-010-29	TRANSISTOR MSD601-RST1		R1303	1-216-805-11	METAL CHIP	47 5% 1/10W	R2316	1-216-809-11	METAL CHIP	100 5% 1/10W
L6203	1-419-743-12	INDUCTOR	100UH	Q6202	8-729-010-05	TRANSISTOR MSB709-RT1		R1304	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2317	1-216-809-11	METAL CHIP	100 5% 1/10W
L6207	1-412-525-31	INDUCTOR	10UH	Q6203	8-729-010-29	TRANSISTOR MSD601-RST1		R2000	1-414-760-21	FERRITE	0UH	R2400	1-249-422-11	CARBON	2.7K 5% 1/4W
L6210	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q6204	8-729-010-05	TRANSISTOR MSB709-RT1		R2001	1-414-760-21	FERRITE	0UH	R2401	1-216-817-11	METAL CHIP	470 5% 1/10W
L6211	1-535-303-00	LEAD, JUMPER	(5.0MM)	Q6205	8-729-010-05	TRANSISTOR MSB709-RT1		R2002	1-216-845-11	METAL CHIP	100K 5% 1/10W	R2402	1-218-827-11	METAL CHIP	150 0.5% 1/10W
L6213	1-412-539-11	INDUCTOR	150UH	Q6206	8-729-010-29	TRANSISTOR MSD601-RST1		R2003	1-216-864-11	SHORT CHIP	0	R2403	1-216-833-11	METAL CHIP	10K 5% 1/10W
L6218	1-419-743-12	INDUCTOR	100UH	Q6207	8-729-010-29	TRANSISTOR MSD601-RST1		R2004	1-216-864-11	SHORT CHIP	0	R2404	1-216-821-11	METAL CHIP	1K 5% 1/10W
L6219	1-406-971-11	INDUCTOR	10UH	Q6208	8-729-010-29	TRANSISTOR MSD601-RST1		R2005	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2405	1-216-838-11	METAL CHIP	27K 5% 1/10W
< PROTECTOR MODULE >				< RESISTOR >				R2006	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2406	1-216-841-11	METAL CHIP	47K 5% 1/10W
PS2000	1-801-549-21	IC LINK	4A 0V	JR3001	1-216-864-11	SHORT CHIP	0	R2007	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2407	1-216-833-11	METAL CHIP	10K 5% 1/10W
PS2001	1-801-549-21	IC LINK	4A 0V	JR3003	1-216-864-11	SHORT CHIP	0	R2008	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2409	1-216-864-11	SHORT CHIP	0
< TRANSISTOR >				JR3004	1-216-864-11	SHORT CHIP	0	R2022	1-216-845-11	METAL CHIP	100K 5% 1/10W	R2410	1-216-864-11	SHORT CHIP	0
Q0100	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		JR3006	1-216-864-11	SHORT CHIP	0	R2025	1-216-864-11	SHORT CHIP	0	R2500	1-216-089-91	RES-CHIP	47K 5% 1/10W
Q0200	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		JR3010	1-216-864-11	SHORT CHIP	0	R2026	1-216-809-11	METAL CHIP	100 5% 1/10W	R2501	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q0201	8-729-028-28	TRANSISTOR 2SK2036(TE85L)		JR6001	1-216-864-11	SHORT CHIP	0	R2029	1-216-864-11	SHORT CHIP	0	R2502	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1100	8-729-010-29	TRANSISTOR MSD601-RST1		JR6002	1-216-864-11	SHORT CHIP	0	R2030	1-216-864-11	SHORT CHIP	0	R2503	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q1300	8-729-010-29	TRANSISTOR MSD601-RST1		JR6003	1-216-864-11	SHORT CHIP	0	R2200	1-216-837-11	METAL CHIP	22K 5% 1/10W	R2504	1-216-089-91	RES-CHIP	47K 5% 1/10W
Q1301	8-729-010-05	TRANSISTOR MSB709-RT1		JR6004	1-216-864-11	SHORT CHIP	0	R2201	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2505	1-216-049-11	RES-CHIP	1K 5% 1/10W
Q2000	8-729-010-29	TRANSISTOR MSD601-RST1		JR6005	1-216-864-11	SHORT CHIP	0	R2202	1-216-837-11	METAL CHIP	22K 5% 1/10W	R2506	1-216-079-00	RES-CHIP	18K 5% 1/10W
Q2200	8-729-010-05	TRANSISTOR MSB709-RT1		JR6006	1-216-864-11	SHORT CHIP	0	R2203	1-216-839-11	METAL CHIP	33K 5% 1/10W	R2507	1-216-079-00	RES-CHIP	18K 5% 1/10W
Q2201	8-729-010-29	TRANSISTOR MSD601-RST1		JR6007	1-216-864-11	SHORT CHIP	0	R2204	1-216-839-11	METAL CHIP	33K 5% 1/10W	R2508	1-216-809-11	METAL CHIP	100 5% 1/10W
Q2202	8-729-010-29	TRANSISTOR MSD601-RST1		JR6008	1-216-864-11	SHORT CHIP	0	R2205	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2509	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q2300	8-729-010-05	TRANSISTOR MSB709-RT1		JR6009	1-216-864-11	SHORT CHIP	0	R2206	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2511	1-216-837-11	METAL CHIP	22K 5% 1/10W
Q2301	8-729-010-29	TRANSISTOR MSD601-RST1		JR6013	1-216-864-11	SHORT CHIP	0	R2207	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R2512	1-216-835-11	METAL CHIP	15K 5% 1/10W
Q2302	8-729-010-29	TRANSISTOR MSD601-RST1		JR6023	1-216-864-11	SHORT CHIP	0	R2208	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2514	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
Q2400	8-729-010-05	TRANSISTOR MSB709-RT1		JR6025	1-216-864-11	SHORT CHIP	0	R2209	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2515	1-216-833-11	METAL CHIP	10K 5% 1/10W
Q2401	8-729-010-29	TRANSISTOR MSD601-RST1		JR6027	1-216-864-11	SHORT CHIP	0	R2211	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2516	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2500	8-729-010-29	TRANSISTOR MSD601-RST1		JR8002	1-216-864-11	SHORT CHIP	0	R2213	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2517	1-216-864-11	SHORT CHIP	0
Q2501	8-729-010-29	TRANSISTOR MSD601-RST1		JR8003	1-216-864-11	SHORT CHIP	0	R2214	1-216-817-11	METAL CHIP	470 5% 1/10W	R2518	1-216-081-00	RES-CHIP	22K 5% 1/10W
Q2502	8-729-010-29	TRANSISTOR MSD601-RST1		R0001	1-216-864-11	SHORT CHIP	0	R2216	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2519	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2503	8-729-010-29	TRANSISTOR MSD601-RST1		R0100	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2217	1-216-817-11	METAL CHIP	470 5% 1/10W	R2520	1-216-845-11	METAL CHIP	100K 5% 1/10W
Q2504	8-729-027-38	TRANSISTOR DTA144EKA-T146		R0102	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2218	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2521	1-243-826-21	METAL OXIDE	4.7 5% 1W
Q5100	8-729-010-05	TRANSISTOR MSB709-RT1		R0103	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2220	1-216-864-11	SHORT CHIP	0	R2522	1-243-826-21	METAL OXIDE	4.7 5% 1W
Q5101	8-729-010-29	TRANSISTOR MSD601-RST1		R0200	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R2221	1-216-864-11	SHORT CHIP	0	R2523	1-216-841-11	METAL CHIP	47K 5% 1/10W
Q5200	8-729-010-05	TRANSISTOR MSB709-RT1		R0201	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R2300	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2524	1-216-864-11	SHORT CHIP	0
Q5201	8-729-010-29	TRANSISTOR MSD601-RST1		R0202	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2301	1-216-821-11	METAL CHIP	1K 5% 1/10W	R2525	1-216-821-11	METAL CHIP	1K 5% 1/10W
Q5202	8-729-010-05	TRANSISTOR MSB709-RT1		R0204	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2302	1-216-805-11	METAL CHIP	47 5% 1/10W	R2526	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
Q5203	8-729-010-29	TRANSISTOR MSD601-RST1		R0205	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R2303	1-216-805-11	METAL CHIP	47 5% 1/10W	R5102	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
Q5207	8-729-010-05	TRANSISTOR MSB709-RT1		R0207	1-216-833-11	METAL CHIP	10K 5% 1/10W	R2304	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5103	1-218-833-11	METAL CHIP	270 0.5% 1/10W
Q5208	8-729-010-29	TRANSISTOR MSD601-RST1						R2305	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5107	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
Q5209	8-729-010-29	TRANSISTOR MSD601-RST1						R2306	1-216-837-11	METAL CHIP	22K 5% 1/10W	R5111	1-216-837-11	METAL CHIP	22K 5% 1/10W

A

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R5112	1-216-835-11	METAL CHIP	15K 5% 1/10W	R5231	1-216-823-11	METAL CHIP	1.5K 5% 1/10W
R5118	1-249-411-11	CARBON	330 5% 1/4W	R5232	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5119	1-216-844-11	METAL CHIP	82K 5% 1/10W	R5233	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5122	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5234	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5125	1-216-836-11	METAL CHIP	18K 5% 1/10W	R5235	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5126	1-249-406-11	CARBON	120 5% 1/4W	R5236	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5127	1-216-841-11	METAL CHIP	47K 5% 1/10W	R5237	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5141	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5239	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5143	1-216-833-11	METAL CHIP	10K 5% 1/10W	R5240	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5144	1-216-821-11	METAL CHIP	1K 5% 1/10W	R5241	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5145	1-216-809-11	METAL CHIP	100 5% 1/10W	R5242	1-216-826-11	METAL CHIP	2.7K 5% 1/10W
R5146	1-216-809-11	METAL CHIP	100 5% 1/10W	R5243	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5148	1-216-809-11	METAL CHIP	100 5% 1/10W	R5244	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5149	1-218-833-11	METAL CHIP	270 0.5% 1/10W	R5245	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5150	1-249-414-11	CARBON	560 5% 1/4W	R5246	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R5151	1-249-454-11	CARBON	3.9 5% 1/4W	R5247	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5152	1-249-413-11	CARBON	470 5% 1/4W	R5248	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5153	1-249-393-11	CARBON	10 5% 1/4W	R5249	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5154	1-216-853-11	METAL CHIP	470K 5% 1/10W	R5250	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5155	1-249-421-11	CARBON	2.2K 5% 1/4W	R5251	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5156	1-216-837-11	METAL CHIP	22K 5% 1/10W	R5252	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5157	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R5253	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5158	1-216-843-11	METAL CHIP	68K 5% 1/10W	R5254	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5201	1-216-809-11	METAL CHIP	100 5% 1/10W	R5255	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R5203	1-216-864-11	SHORT CHIP	0	R5256	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R5204	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5408	1-216-845-11	METAL CHIP	100K 5% 1/10W
R5205	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5409	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R5206	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5410	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5207	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5411	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R5209	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5413	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R5210	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5414	1-249-383-11	CARBON	1.5 5% 1/4W
R5212	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5415	1-249-389-11	CARBON	4.7 5% 1/4W
R5213	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5416	1-243-568-21	METAL OXIDE	220 5% 2W
R5214	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5417	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5215	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5420	1-214-798-21	METAL	1.8 1% 1/2W
R5216	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R5421	1-214-798-21	METAL	1.8 1% 1/2W
R5217	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R6203	1-218-859-11	METAL CHIP	3.3K 0.5% 1/10W
R5218	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6206	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R5219	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6209	1-216-864-11	SHORT CHIP	0
R5220	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6211	1-218-860-11	METAL CHIP	3.6K 0.5% 1/10W
R5221	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R6213	1-535-303-00	LEAD, JUMPER (5.0MM)	
R5222	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6214	1-216-864-11	SHORT CHIP	0
R5223	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6215	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5224	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6216	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5225	1-216-823-11	METAL CHIP	1.5K 5% 1/10W	R6217	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5226	1-216-833-11	METAL CHIP	10K 5% 1/10W	R6218	1-216-821-11	METAL CHIP	1K 5% 1/10W
R5227	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6219	1-216-841-11	METAL CHIP	47K 5% 1/10W
R5228	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6220	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5229	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6221	1-216-833-11	METAL CHIP	10K 5% 1/10W
R5230	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R6222	1-216-864-11	SHORT CHIP	0

REF.NO.	PART.NO	DESCRIPTION	REMARK
R6223	1-216-846-11	METAL CHIP	120K 5% 1/10W
R6224	1-218-877-11	METAL CHIP	18K 0.5% 1/10W
R6225	1-218-871-11	METAL CHIP	10K 0.5% 1/10W
R6226	1-216-833-11	METAL CHIP	10K 5% 1/10W
R6227	1-218-899-11	METAL CHIP	150K 0.5% 1/16W
R6228	1-216-833-11	METAL CHIP	10K 5% 1/10W
R6229	1-216-845-11	METAL CHIP	100K 5% 1/10W
R6230	1-216-845-11	METAL CHIP	100K 5% 1/10W
R6231	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
R6232	1-216-864-11	SHORT CHIP	0
R6238	1-216-864-11	SHORT CHIP	0
R6244	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R6246	1-218-839-11	METAL CHIP	470 0.5% 1/10W
R6247	1-216-864-11	SHORT CHIP	0
R6248	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6249	1-216-841-11	METAL CHIP	47K 5% 1/10W
R6250	1-216-841-11	METAL CHIP	47K 5% 1/10W
R8005	1-216-809-11	METAL CHIP	100 5% 1/10W
R8007	1-216-809-11	METAL CHIP	100 5% 1/10W
R8008	1-216-809-11	METAL CHIP	100 5% 1/10W
R8009	1-216-809-11	METAL CHIP	100 5% 1/10W
R8010	1-216-809-11	METAL CHIP	100 5% 1/10W
R8011	1-216-809-11	METAL CHIP	100 5% 1/10W
R8012	1-216-809-11	METAL CHIP	100 5% 1/10W
R8013	1-216-809-11	METAL CHIP	100 5% 1/10W
R8014	1-216-809-11	METAL CHIP	100 5% 1/10W
R8015	1-216-809-11	METAL CHIP	100 5% 1/10W
R8016	1-216-809-11	METAL CHIP	100 5% 1/10W
R8017	1-216-809-11	METAL CHIP	100 5% 1/10W

< CRYSTAL >

X2000 1-760-628-11 VIBRATOR, CRYSTAL

A Board Variant Parts KV28FQ86B, KV-32FQ86B

< TUNER >

TU1100 8-598-535-20 FRONTEND BTF-EF411

A Board Variant Parts KV28FQ86E, KV-32FQ86E/K

< TUNER >

TU1100 8-598-533-10 FRONTEND BTF-EC411

A Board Variant Parts KV-32FQ86U

< TUNER >

TU1100 8-598-529-10 FRONTEND BTF-EU611

REF.NO.	PART.NO	DESCRIPTION	REMARK
* A-1302-963-A G Board Complete			
	4-382-854-01	SCREW (M3X8), P, SW (+)	
< CAPACITOR >			
C6001	Δ 1-165-528-11	MYLAR	0.1UF 10 275V
C6002	Δ 1-165-528-11	MYLAR	0.1UF 10 275V
C6003	Δ 1-119-900-51	CERAMIC	2200PF 20.00% 250V
C6004	Δ 1-119-900-51	CERAMIC	2200PF 20.00% 250V
C6005	1-126-965-91	ELECT	22UF 20.00% 50V
C6006	1-117-753-11	ELECT(BLOCK)	470UF 20.00% 450V
C6007	1-126-964-11	ELECT	10UF 20.00% 50V
C6008	1-126-963-11	ELECT	4.7UF 20.00% 50V
C6010	1-136-497-81	FILM	0.1UF 5.00% 50V
C6011	1-162-964-11	CERAMIC CHIP	0.001UF 10.00% 50V
C6012	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV
C6013	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV
C6015	1-115-339-11	CERAMIC CHIP	0.1UF 10.00% 50V
C6016	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV
C6017	Δ 1-104-571-91	CERAMIC	0.0015UF 10.00% 2KV
C6018	1-126-949-11	ELECT	220UF 20.00% 35V
C6019	1-162-968-11	CERAMIC CHIP	0.0047UF 10.00% 50V
C6020	1-100-311-11	FILM	22000PF 3% 800V
C6021	1-164-625-11	CERAMIC	680PF 10.00% 500V
C6022	1-126-963-11	ELECT	4.7UF 20.00% 50V
C6023	1-110-626-11	ELECT	330UF 20.00% 160V
C6028	1-128-548-11	ELECT	4700UF 20.00% 25V
C6029	1-126-939-11	ELECT	10000UF 20.00% 16V
C6030	1-126-944-11	ELECT	3300UF 20.00% 25V
C6031	1-126-944-11	ELECT	3300UF 20.00% 25V
C6032	Δ 1-113-927-11	CERAMIC	0.01UF 250V
C6033	1-162-964-11	CERAMIC CHIP	0.001UF 10.00% 50V
C6034	1-126-949-11	ELECT	220UF 20.00% 35V
C6035	1-136-497-81	FILM	0.1UF 5.00% 50V
C6036	1-136-479-11	FILM	0.001UF 5.00% 100V
C6037	1-126-947-11	ELECT	47UF 20.00% 35V
C6038	1-164-625-11	CERAMIC	680PF 10.00% 500V
C6039	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V
C6040	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
C6042	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
C6043	1-125-891-11	CERAMIC CHIP	0.47UF 10.00% 10V
C6045	1-115-339-11	CERAMIC CHIP	0.1UF 10.00% 50V
C6103	1-119-940-51	ELECT	4700UF 20.00% 50V
< CONNECTOR >			
CN6001	Δ * 1-691-291-11	PIN, CONNECTOR (PC BOARD)	5P
CN6002	Δ * 1-508-786-00	PIN, CONNECTOR (5MM PITCH)	2P
CN6003	Δ * 1-508-765-00	PIN, CONNECTOR (5MM PITCH)	3P
CN6004	Δ * 1-691-960-11	PIN, CONNECTOR (PC BOARD)	3P
CN6005	* 1-817-037-61	PLUG, CONNECTOR	6P

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

G

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
CN6006	* 1-564-510-11	PLUG, CONNECTOR 7P		< TRANSISTOR >			
CN6007	1-817-917-11	PIN, CONNECTOR 3P		Q6003	8-729-010-29	TRANSISTOR MSD601-RST1	
CN6008	* 1-816-977-51	PLUG, CONNECTOR 6P		Q6005	8-729-901-06	TRANSISTOR DTA144EK	
CN6012	* 1-564-510-11	PLUG, CONNECTOR 7P		Q6006	6-550-698-01	TRANSISTOR SPA08N50C3-E8152	
< DIODE >				Q6007	6-550-698-01	TRANSISTOR SPA08N50C3-E8152	
D6001	6-500-067-01	DIODE GSIB460L/45		Q6010	8-729-010-29	TRANSISTOR MSD601-RST1	
D6002	8-719-982-26	DIODE MT2J-33B		Q6102	8-729-010-29	TRANSISTOR MSD601-RST1	
D6004	8-719-083-94	DIODE FUF4005		< RESISTOR >			
D6006	8-719-081-97	DIODE MMDL914T1		JR6007	1-216-864-11	SHORT CHIP	0
D6007	8-719-081-97	DIODE MMDL914T1		R6003	Δ 1-202-933-61	FUSIBLE	0.1 10% 1/2W
D6008	6-500-175-01	DIODE 1E3-TB		R6004	Δ 1-205-998-11	CEMENTED	1 5% 10W
D6009	8-719-110-41	DIODE RD15ESB2		R6005	Δ 1-205-998-11	CEMENTED	1 5% 10W
D6012	8-719-052-90	DIODE D1NL40-TA2		R6007	1-243-979-21	METAL OXIDE	0.1 5% 2W
D6013	6-500-175-01	DIODE 1E3-TB		R6008	1-243-979-21	METAL OXIDE	0.1 5% 2W
D6016	8-719-060-88	DIODE D4SBS6		R6009	1-218-875-11	METAL CHIP	15K 0.5% 1/10W
D6017	8-719-052-90	DIODE D1NL40-TA2		R6010	1-245-478-21	METAL	470K 1% 1/4W
D6031	8-719-080-59	DIODE EK19-V0		R6011	1-245-494-21	METAL	2.2M 2% 1/4W
D6032	8-719-080-59	DIODE EK19-V0		R6012	1-245-494-21	METAL	2.2M 2% 1/4W
D6033	8-719-312-92	DIODE RK14V1		R6013	Δ 1-218-265-11	METAL	8.2M 5% 1W
D6034	8-719-312-92	DIODE RK14V1		R6014	1-243-624-21	METAL OXIDE	33K 5% 3W
D6036	8-719-080-59	DIODE EK19-V0		R6015	1-211-992-11	METAL CHIP	91 0.5% 1/10W
D6102	8-719-511-40	DIODE S1VB40		R6016	1-216-821-11	METAL CHIP	1K 5% 1/10W
D6104	8-719-081-97	DIODE MMDL914T1		R6017	1-216-833-11	METAL CHIP	10K 5% 1/10W
D6105	8-719-081-97	DIODE MMDL914T1		R6018	1-260-131-11	CARBON	470K 5% 1/2W
< FERRITE BEAD >				R6019	1-260-129-11	CARBON	330K 5% 1/2W
FB6002	1-410-397-21	FERRITE	1.1UH	R6020	1-216-820-11	METAL CHIP	820 5% 1/10W
FB6003	1-410-397-21	FERRITE	1.1UH	R6021	1-243-946-21	METAL OXIDE	0.27 5% 2W
< IC >				R6022	1-216-833-11	METAL CHIP	10K 5% 1/10W
IC6001	8-759-670-30	IC MCZ3001D		R6024	1-211-981-11	METAL CHIP	33 0.5% 1/10W
IC6003	8-749-016-19	IC SE135N-LF4		R6029	1-216-833-11	METAL CHIP	10K 5% 1/10W
< COIL >				R6030	1-216-817-11	METAL CHIP	470 5% 1/10W
L6001	1-406-663-21	INDUCTOR	47UH	R6032	1-249-417-11	CARBON	1K 5% 1/4W
L6002	1-412-521-31	INDUCTOR	4.7UH	R6033	1-245-478-21	METAL	470K 1% 1/4W
L6003	1-412-521-31	INDUCTOR	4.7UH	R6035	1-260-083-11	CARBON	47 5% 1/2W
L6004	1-535-303-00	LEAD, JUMPER (5.0MM)		R6036	1-216-817-11	METAL CHIP	470 5% 1/10W
L6005	1-535-303-00	LEAD, JUMPER (5.0MM)		R6037	1-249-405-11	CARBON	100 5% 1/4W
L6006	1-406-659-11	INDUCTOR	10UH	R6038	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
L6007	1-412-525-31	INDUCTOR	10UH	R6039	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
L6008	1-412-533-21	INDUCTOR	47UH	R6040	1-218-879-11	METAL CHIP	22K 0.5% 1/10W
L6009	1-414-181-11	INDUCTOR	4.7UH	R6045	1-216-815-11	METAL CHIP	330 5% 1/10W
L6014	1-414-189-31	INDUCTOR	100UH	R6047	1-218-885-11	METAL CHIP	39K 0.5% 1/10W
< PHOTOCOUPLER >				R6049	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W
PH6001	Δ 6-600-187-01	PHOTO COUPLER	PCI23Y22J00F	R6050	1-218-823-11	METAL CHIP	100 0.5% 1/10W
				R6054	1-211-981-11	METAL CHIP	33 0.5% 1/10W
				R6057	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
				R6101	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R6102	1-216-829-11	METAL CHIP	4.7K 5% 1/10W

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

G

B

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R6105	1-216-821-11	METAL CHIP	1K 5% 1/10W	C0054	1-126-947-11	ELECT	47UF 20.00% 35V
R6106	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C0055	1-126-947-11	ELECT	47UF 20.00% 35V
< RELAY >				C0056	1-164-156-11	CERAMIC CHIP	0.1UF 25V
RY6001	Δ 1-755-388-11	RELAY (AC POWER)		C0059	1-164-156-11	CERAMIC CHIP	0.1UF 25V
RY6002	Δ 1-755-388-11	RELAY (AC POWER)		C0060	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V
< TRANSFORMER >				C0061	1-164-156-11	CERAMIC CHIP	0.1UF 25V
T6001	Δ 1-428-896-11	COIL, LINE FILTER		C0062	1-126-947-11	ELECT	47UF 20.00% 35V
T6002	Δ 1-443-059-11	TRANSFORMER, CONVERTER (PT)		C0063	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V
T6003	Δ 1-428-896-11	COIL, LINE FILTER		C0064	1-164-230-11	CERAMIC CHIP	220PF 5.00% 50V
T6101	Δ 1-443-114-11	TRANSFORMER, STANDBY		C0065	1-164-156-11	CERAMIC CHIP	0.1UF 25V
< THERMISTOR >				C0066	1-164-156-11	CERAMIC CHIP	0.1UF 25V
TH6002	Δ 1-804-650-11	THERMISTOR, POSITIVE		C3101	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
* A-1302-965-A B Board Complete				C3102	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
	4-087-203-01	PLASTIC RIVET		C3103	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
< CAPACITOR >				C3104	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
C0005	1-162-921-11	CERAMIC CHIP	33PF 5.00% 50V	C3107	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V
C0006	1-162-921-11	CERAMIC CHIP	33PF 5.00% 50V	C3108	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V
C0007	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V	C3109	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V
C0008	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3110	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V
C0009	1-162-923-11	CERAMIC CHIP	47PF 5.00% 50V	C3116	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
C0011	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3117	1-127-715-91	CERAMIC CHIP	0.22UF 10% 16V
C0013	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3121	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0015	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3122	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0016	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3123	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0017	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3124	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0018	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3127	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V
C0020	1-126-947-11	ELECT	47UF 20.00% 35V	C3129	1-165-176-11	CERAMIC CHIP	0.047UF 10.00% 16V
C0021	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3130	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0023	1-126-933-11	ELECT	100UF 20.00% 16V	C3131	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0025	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3132	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0026	1-126-947-11	ELECT	47UF 20.00% 35V	C3133	1-126-947-11	ELECT	47UF 20.00% 35V
C0028	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3134	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0029	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3135	1-162-919-11	CERAMIC CHIP	22PF 5.00% 50V
C0032	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3136	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0033	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3137	1-162-919-11	CERAMIC CHIP	22PF 5.00% 50V
C0035	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3138	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0038	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3139	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0039	1-126-947-11	ELECT	47UF 20.00% 35V	C3140	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0041	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3141	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0043	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3142	1-126-947-11	ELECT	47UF 20.00% 35V
C0045	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3143	1-126-947-11	ELECT	47UF 20.00% 35V
C0047	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3144	1-126-947-11	ELECT	47UF 20.00% 35V
C0048	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3145	1-126-947-11	ELECT	47UF 20.00% 35V
C0051	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3147	1-164-156-11	CERAMIC CHIP	0.1UF 25V
C0053	1-164-156-11	CERAMIC CHIP	0.1UF 25V	C3148	1-164-156-11	CERAMIC CHIP	0.1UF 25V
				C3300	1-164-156-11	CERAMIC CHIP	0.1UF 25V
				C3301	1-164-156-11	CERAMIC CHIP	0.1UF 25V
				C3302	1-164-156-11	CERAMIC CHIP	0.1UF 25V
				C3303	1-164-156-11	CERAMIC CHIP	0.1UF 25V
				C3304	1-164-156-11	CERAMIC CHIP	0.1UF 25V

B

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C3305	1-164-156-11	CERAMIC CHIP 0.1UF	25V	C5560	1-127-715-91	CERAMIC CHIP 0.22UF	10% 16V
C3306	1-164-156-11	CERAMIC CHIP 0.1UF	25V	< CONNECTOR >			
C3307	1-126-947-11	ELECT 47UF	20.00% 35V	CN3100	1-794-244-11	CONNECTOR, DIN (PLUG) 96P	
C3308	1-164-156-11	CERAMIC CHIP 0.1UF	25V	CN3400	* 1-564-524-11	PLUG, CONNECTOR 9P	
C3309	1-164-156-11	CERAMIC CHIP 0.1UF	25V	CN3402	* 1-564-519-11	PLUG, CONNECTOR 4P	
C3310	1-164-156-11	CERAMIC CHIP 0.1UF	25V	< DIODE >			
C3311	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D0069	8-719-083-57	DIODE UDZSTE-173.6B	
C3312	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	D0070	8-719-081-97	DIODE MMDL914T1	
C3313	1-162-919-11	CERAMIC CHIP 22PF	5.00% 50V	D0071	8-719-081-97	DIODE MMDL914T1	
C3314	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D5500	8-719-069-55	DIODE UDZSTE-175.6B	
C3315	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D5501	8-719-083-57	DIODE UDZSTE-173.6B	
C3316	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D5502	6-500-028-01	DIODE MM3Z9V1ST1	
C3317	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D5504	8-719-081-97	DIODE MMDL914T1	
C3318	1-164-156-11	CERAMIC CHIP 0.1UF	25V	D5505	8-719-081-97	DIODE MMDL914T1	
C3319	1-126-947-11	ELECT 47UF	20.00% 35V	D5506	8-719-081-97	DIODE MMDL914T1	
C3320	1-126-947-11	ELECT 47UF	20.00% 35V	D5511	8-719-081-97	DIODE MMDL914T1	
C3321	1-115-758-11	ELECT 470UF	20.00% 16V	< IC >			
C3324	1-164-156-11	CERAMIC CHIP 0.1UF	25V	IC0001	6-704-964-01	IC SDA6001-B12T	
C3402	1-126-947-11	ELECT 47UF	20.00% 35V	IC0002	8-759-682-41	IC M24C32-WMN6T(A)	
C3403	1-164-156-11	CERAMIC CHIP 0.1UF	25V	IC0003	6-704-312-01	IC K4S641632F-UC75T	
C3405	1-164-156-11	CERAMIC CHIP 0.1UF	25V	IC0005	6-804-027-02	IC M27V160-100K1-6Y002	
C3406	1-126-947-11	ELECT 47UF	20.00% 35V	IC0006	6-702-313-01	IC PST6001MT	
C3407	1-164-156-11	CERAMIC CHIP 0.1UF	25V	IC0007	8-759-352-91	IC PST9143NL	
C3408	1-126-947-11	ELECT 47UF	20.00% 35V	IC3100	6-803-528-01	IC VSP9417BC3G	
C3409	1-126-947-11	ELECT 47UF	20.00% 35V	IC3300	6-705-124-01	IC FRC9429A-A1	
C3410	1-164-156-11	CERAMIC CHIP 0.1UF	25V	IC3400	6-705-123-01	IC DDP3316C-H5	
C3411	1-164-156-11	CERAMIC CHIP 0.1UF	25V	< COIL >			
C3412	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	L0002	1-414-928-21	INDUCTOR 1UH	
C3413	1-164-156-11	CERAMIC CHIP 0.1UF	25V	L0003	1-414-928-21	INDUCTOR 1UH	
C3421	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	L0004	1-414-928-21	INDUCTOR 1UH	
C3422	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	L0006	1-414-928-21	INDUCTOR 1UH	
C3425	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	L0007	1-414-928-21	INDUCTOR 1UH	
C3427	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	L0008	1-414-928-21	INDUCTOR 1UH	
C3428	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	L3100	1-414-928-21	INDUCTOR 1UH	
C3431	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	L3104	1-414-928-21	INDUCTOR 1UH	
C3432	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	L3105	1-414-928-21	INDUCTOR 1UH	
C3433	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	L3106	1-414-928-21	INDUCTOR 1UH	
C3434	1-164-156-11	CERAMIC CHIP 0.1UF	25V	L3107	1-414-928-21	INDUCTOR 1UH	
C3435	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V	L3300	1-414-928-21	INDUCTOR 1UH	
C3436	1-126-947-11	ELECT 47UF	20.00% 35V	L3301	1-414-928-21	INDUCTOR 1UH	
C3847	1-164-156-11	CERAMIC CHIP 0.1UF	25V	L3302	1-414-928-21	INDUCTOR 1UH	
C5503	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	L3303	1-410-397-21	FERRITE 1.1UH	
C5508	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L3400	1-414-928-21	INDUCTOR 1UH	
C5509	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L3401	1-414-928-21	INDUCTOR 1UH	
C5510	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V	L3402	1-414-928-21	INDUCTOR 1UH	
C5511	1-162-970-11	CERAMIC CHIP 0.01UF	10.00% 25V	L3403	1-414-928-21	INDUCTOR 1UH	
C5516	1-164-156-11	CERAMIC CHIP 0.1UF	25V				
C5518	1-164-156-11	CERAMIC CHIP 0.1UF	25V				
C5521	1-107-826-11	CERAMIC CHIP 0.1UF	10.00% 16V				
C5558	1-126-947-11	ELECT 47UF	20.00% 35V				

B

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
L3404	1-414-928-21	INDUCTOR 1UH		R0009	1-216-817-11	METAL CHIP 470 5%	1/10W
L5549	1-414-928-21	INDUCTOR 1UH		R0011	1-216-864-11	SHORT CHIP 0	
< TRANSISTOR >				R0014	1-216-805-11	METAL CHIP 47 5%	1/10W
Q0001	8-729-010-05	TRANSISTOR MSB709-RT1		R0015	1-216-805-11	METAL CHIP 47 5%	1/10W
Q0002	8-729-010-05	TRANSISTOR MSB709-RT1		R0016	1-216-805-11	METAL CHIP 47 5%	1/10W
Q0003	8-729-010-05	TRANSISTOR MSB709-RT1		R0017	1-216-821-11	METAL CHIP 1K 5%	1/10W
Q0005	8-729-010-29	TRANSISTOR MSD601-RST1		R0018	1-216-864-11	SHORT CHIP 0	
Q0075	8-729-010-29	TRANSISTOR MSD601-RST1		R0019	1-216-809-11	METAL CHIP 100 5%	1/10W
Q3400	8-729-010-29	TRANSISTOR MSD601-RST1		R0020	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q3401	8-729-010-29	TRANSISTOR MSD601-RST1		R0021	1-216-809-11	METAL CHIP 100 5%	1/10W
Q3402	8-729-010-29	TRANSISTOR MSD601-RST1		R0022	1-216-864-11	SHORT CHIP 0	
Q3403	8-729-010-29	TRANSISTOR MSD601-RST1		R0023	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q3404	8-729-010-29	TRANSISTOR MSD601-RST1		R0025	1-216-809-11	METAL CHIP 100 5%	1/10W
Q3405	8-729-010-29	TRANSISTOR MSD601-RST1		R0026	1-216-809-11	METAL CHIP 100 5%	1/10W
Q3406	8-729-010-05	TRANSISTOR MSB709-RT1		R0027	1-216-809-11	METAL CHIP 100 5%	1/10W
Q3409	8-729-010-29	TRANSISTOR MSD601-RST1		R0028	1-216-833-11	METAL CHIP 10K 5%	1/10W
Q3410	8-729-010-29	TRANSISTOR MSD601-RST1		R0029	1-216-809-11	METAL CHIP 100 5%	1/10W
Q5500	8-729-010-29	TRANSISTOR MSD601-RST1		R0030	1-216-809-11	METAL CHIP 100 5%	1/10W
Q5503	8-729-010-29	TRANSISTOR MSD601-RST1		R0031	1-216-809-11	METAL CHIP 100 5%	1/10W
Q5505	8-729-010-29	TRANSISTOR MSD601-RST1		R0032	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q5507	8-729-010-05	TRANSISTOR MSB709-RT1		R0033	1-216-827-11	METAL CHIP 3.3K 5%	1/10W
Q5509	8-729-010-29	TRANSISTOR MSD601-RST1		R0034	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
Q5519	8-729-010-29	TRANSISTOR MSD601-RST1		R0035	1-216-809-11	METAL CHIP 100 5%	1/10W
Q5521	8-729-010-05	TRANSISTOR MSB709-RT1		R0036	1-216-809-11	METAL CHIP 100 5%	1/10W
Q5550	8-729-010-29	TRANSISTOR MSD601-RST1		R0037	1-216-809-11	METAL CHIP 100 5%	1/10W
< RESISTOR >				R0038	1-216-825-11	METAL CHIP 2.2K 5%	1/10W
JR0002	1-216-864-11	SHORT CHIP 0		R0039	1-216-809-11	METAL CHIP 100 5%	1/10W
JR0003	1-216-864-11	SHORT CHIP 0		R0040	1-216-809-11	METAL CHIP 100 5%	1/10W
JR0004	1-216-864-11	SHORT CHIP 0		R0041	1-216-815-11	METAL CHIP 330 5%	1/10W
JR0008	1-216-864-11	SHORT CHIP 0		R0042	1-216-809-11	METAL CHIP 100 5%	1/10W
JR0010	1-216-864-11	SHORT CHIP 0		R0043	1-216-864-11	SHORT CHIP 0	
JR0011	1-216-864-11	SHORT CHIP 0		R0044	1-216-809-11	METAL CHIP 100 5%	1/10W
JR3400	1-216-864-11	SHORT CHIP 0		R0045	1-216-809-11	METAL CHIP 100 5%	1/10W
JR3401	1-216-864-11	SHORT CHIP 0		R0046	1-216-833-11	METAL CHIP 10K 5%	1/10W
JR3404	1-216-864-11	SHORT CHIP 0		R0047	1-216-809-11	METAL CHIP 100 5%	1/10W
JR3406	1-216-864-11	SHORT CHIP 0		R0048	1-216-809-11	METAL CHIP 100 5%	1/10W
JR3408	1-216-864-11	SHORT CHIP 0		R0049	1-216-809-11	METAL CHIP 100 5%	1/10W
JR3409	1-216-864-11	SHORT CHIP 0		R0052	1-216-809-11	METAL CHIP 100 5%	1/10W
JR5582	1-216-864-11	SHORT CHIP 0		R0053	1-216-829-11	METAL CHIP 4.7K 5%	1/10W
R0001	1-216-833-11	METAL CHIP 10K 5%	1/10W	R0056	1-216-809-11	METAL CHIP 100 5%	1/10W
R0002	1-216-833-11	METAL CHIP 10K 5%	1/10W	R0057	1-216-809-11	METAL CHIP 100 5%	1/10W
R0003	1-216-833-11	METAL CHIP 10K 5%	1/10W	R0059	1-216-809-11	METAL CHIP 100 5%	1/10W
R0004	1-216-816-11	METAL CHIP 390 5%	1/10W	R0060	1-216-809-11	METAL CHIP 100 5%	1/10W
R0005	1-216-816-11	METAL CHIP 390 5%	1/10W	R0063	1-216-809-11	METAL CHIP 100 5%	1/10W
R0006	1-216-816-11	METAL CHIP 390 5%	1/10W	R0064	1-216-809-11	METAL CHIP 100 5%	1/10W
R0007	1-216-817-11	METAL CHIP 470 5%	1/10W	R0065	1-216-833-11	METAL CHIP 10K 5%	1/10W
R0008	1-216-817-11	METAL CHIP 470 5%	1/10W	R0066	1-216-833-11	METAL CHIP 10K 5%	1/10W
				R0067	1-216-833-11	METAL CHIP 10K 5%	1/10W
				R0068	1-216-833-11	METAL CHIP 10K 5%	1/10W
				R0069	1-216-833-11	METAL CHIP 10K 5%	1/10W

B

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R0070	1-216-809-11	METAL CHIP	100 5% 1/10W	R3307	1-216-864-11	SHORT CHIP	0
R0071	1-216-849-11	METAL CHIP	220K 5% 1/10W	R3308	1-216-864-11	SHORT CHIP	0
R0072	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R3311	1-216-864-11	SHORT CHIP	0
R0073	1-216-833-11	METAL CHIP	10K 5% 1/10W	R3314	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0074	1-216-864-11	SHORT CHIP	0	R3315	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0075	1-216-809-11	METAL CHIP	100 5% 1/10W	R3316	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0076	1-216-864-11	SHORT CHIP	0	R3317	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0079	1-216-864-11	SHORT CHIP	0	R3318	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0080	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R3319	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0081	1-216-827-11	METAL CHIP	3.3K 5% 1/10W	R3320	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0082	1-216-809-11	METAL CHIP	100 5% 1/10W	R3321	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0083	1-216-809-11	METAL CHIP	100 5% 1/10W	R3327	1-216-817-11	METAL CHIP	470 5% 1/10W
R0084	1-216-833-11	METAL CHIP	10K 5% 1/10W	R3400	1-216-864-11	SHORT CHIP	0
R0085	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R3401	1-216-821-11	METAL CHIP	1K 5% 1/10W
R0086	1-216-809-11	METAL CHIP	100 5% 1/10W	R3403	1-218-843-11	METAL CHIP	680 0.5% 1/10W
R0087	1-216-809-11	METAL CHIP	100 5% 1/10W	R3405	1-216-797-11	METAL CHIP	10 5% 1/10W
R0088	1-216-809-11	METAL CHIP	100 5% 1/10W	R3406	1-216-864-11	SHORT CHIP	0
R0089	1-107-826-11	CERAMIC CHIP	0.1UF 10% 16V	R3408	1-216-797-11	METAL CHIP	10 5% 1/10W
R0092	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R3409	1-216-864-11	SHORT CHIP	0
R0093	1-216-833-11	METAL CHIP	10K 5% 1/10W	R3410	1-216-797-11	METAL CHIP	10 5% 1/10W
R0095	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3412	1-216-864-11	SHORT CHIP	0
R0099	1-216-833-11	METAL CHIP	10K 5% 1/10W	R3413	1-216-864-11	SHORT CHIP	0
R0102	1-216-864-11	SHORT CHIP	0	R3414	1-216-809-11	METAL CHIP	100 5% 1/10W
R0108	1-216-864-11	SHORT CHIP	0	R3415	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
R0137	1-216-839-11	METAL CHIP	33K 5% 1/10W	R3416	1-218-837-11	METAL CHIP	390 0.5% 1/10W
R3100	1-216-864-11	SHORT CHIP	0	R3417	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W
R3103	1-216-864-11	SHORT CHIP	0	R3419	1-216-817-11	METAL CHIP	470 5% 1/10W
R3104	1-216-864-11	SHORT CHIP	0	R3421	1-216-817-11	METAL CHIP	470 5% 1/10W
R3106	1-216-864-11	SHORT CHIP	0	R3422	1-216-809-11	METAL CHIP	100 5% 1/10W
R3108	1-216-864-11	SHORT CHIP	0	R3423	1-216-817-11	METAL CHIP	470 5% 1/10W
R3109	1-216-809-11	METAL CHIP	100 5% 1/10W	R3427	1-216-820-11	METAL CHIP	820 5% 1/10W
R3110	1-216-809-11	METAL CHIP	100 5% 1/10W	R3428	1-216-820-11	METAL CHIP	820 5% 1/10W
R3112	1-216-809-11	METAL CHIP	100 5% 1/10W	R3429	1-216-820-11	METAL CHIP	820 5% 1/10W
R3113	1-216-809-11	METAL CHIP	100 5% 1/10W	R3434	1-216-864-11	SHORT CHIP	0
R3114	1-216-864-11	SHORT CHIP	0	R3436	1-216-864-11	SHORT CHIP	0
R3115	1-216-864-11	SHORT CHIP	0	R3437	1-216-864-11	SHORT CHIP	0
R3117	1-216-864-11	SHORT CHIP	0	R3438	1-216-864-11	SHORT CHIP	0
R3165	1-216-845-11	METAL CHIP	100K 5% 1/10W	R3443	1-218-847-11	METAL CHIP	1K 0.5% 1/10W
R3220	1-216-864-11	SHORT CHIP	0	R3444	1-216-809-11	METAL CHIP	100 5% 1/10W
R3221	1-216-864-11	SHORT CHIP	0	R3445	1-216-809-11	METAL CHIP	100 5% 1/10W
R3222	1-216-864-11	SHORT CHIP	0	R3446	1-216-811-11	METAL CHIP	150 5% 1/10W
R3223	1-216-864-11	SHORT CHIP	0	R3450	1-218-837-11	METAL CHIP	390 0.5% 1/10W
R3270	1-216-864-11	SHORT CHIP	0	R3451	1-216-829-11	METAL CHIP	4.7K 5% 1/10W
R3271	1-216-864-11	SHORT CHIP	0	R3452	1-216-817-11	METAL CHIP	470 5% 1/10W
R3272	1-216-864-11	SHORT CHIP	0	R3471	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3300	1-216-809-11	METAL CHIP	100 5% 1/10W	R5501	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3301	1-216-809-11	METAL CHIP	100 5% 1/10W	R5502	1-216-809-11	METAL CHIP	100 5% 1/10W
R3302	1-216-864-11	SHORT CHIP	0	R5503	1-216-821-11	METAL CHIP	1K 5% 1/10W
R3303	1-216-864-11	SHORT CHIP	0	R5504	1-216-809-11	METAL CHIP	100 5% 1/10W
R3306	1-216-864-11	SHORT CHIP	0	R5505	1-216-809-11	METAL CHIP	100 5% 1/10W

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R5507	1-216-864-11	SHORT CHIP	0	RB0035	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5508	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	RB0036	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5510	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0037	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5511	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0038	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5512	1-216-838-11	METAL CHIP	27K 5% 1/10W	RB0039	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5513	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W	RB0043	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5516	1-218-831-11	METAL CHIP	220 0.5% 1/10W	RB0044	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5517	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0045	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5518	1-216-809-11	METAL CHIP	100 5% 1/10W	RB0050	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5521	1-216-821-11	METAL CHIP	1K 5% 1/10W	RB0051	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5523	1-218-855-11	METAL CHIP	2.2K 0.5% 1/10W	RB0052	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5524	1-216-838-11	METAL CHIP	27K 5% 1/10W	RB0053	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5526	1-216-821-11	METAL CHIP	1K 5% 1/10W	RB0054	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5528	1-216-833-11	METAL CHIP	10K 5% 1/10W	RB0055	1-233-576-11	RES, CHIP NETWORK	100 (3216)
R5529	1-216-833-11	METAL CHIP	10K 5% 1/10W	RB3100	1-234-523-21	RES, CHIP NETWORK	0 (3216)
R5532	1-216-821-11	METAL CHIP	1K 5% 1/10W	RB3101	1-234-523-21	RES, CHIP NETWORK	0 (3216)
R5539	1-218-879-11	METAL CHIP	22K 0.5% 1/10W	< CRYSTAL >			
R5540	1-218-881-11	METAL CHIP	27K 0.5% 1/10W	X0001	1-567-162-00	OSCILLATOR, CRYSTAL	
R5541	1-216-821-11	METAL CHIP	1K 5% 1/10W	X3100	1-781-946-21	VIBRATOR, CRYSTAL	
R5543	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	X3300	1-781-946-21	VIBRATOR, CRYSTAL	
R5544	1-216-830-11	METAL CHIP	5.6K 5% 1/10W	X3400	1-795-058-21	VIBRATOR, CERAMIC	
R5545	1-218-895-11	METAL CHIP	100K 0.5% 1/10W	* A-1302-964-A D Board Complete KV-28FQ86			
R5547	1-218-895-11	METAL CHIP	100K 0.5% 1/10W	* A-1302-971-A D Board Complete KV-32FQ86			
R5548	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	D Board Common Parts			
R5549	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	4-382-854-01	SCREW (M3X8), P, SW (+)		
R5550	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	< CAPACITOR >			
R5551	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C8100	1-136-497-81	FILM	0.1UF 5.00% 50V
R5552	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C8101	1-136-497-81	FILM	0.1UF 5.00% 50V
R5555	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C8102	1-136-497-81	FILM	0.1UF 5.00% 50V
R5556	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C8103	1-115-416-11	CERAMIC CHIP	0.001UF 5.00% 25V
R5557	1-216-809-11	METAL CHIP	100 5% 1/10W	C8104	1-115-416-11	CERAMIC CHIP	0.001UF 5.00% 25V
R5558	1-216-809-11	METAL CHIP	100 5% 1/10W	C8105	1-126-947-11	ELECT	47UF 20.00% 35V
R5559	1-216-864-11	SHORT CHIP	0	C8106	1-164-315-11	CERAMIC CHIP	470PF 5.00% 50V
R5560	1-216-833-11	METAL CHIP	10K 5% 1/10W	C8107	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W
R5561	1-216-821-11	METAL CHIP	1K 5% 1/10W	C8108	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
R5566	1-216-833-11	METAL CHIP	10K 5% 1/10W	C8109	1-126-947-11	ELECT	47UF 20.00% 35V
R5569	1-216-864-11	SHORT CHIP	0	C8110	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
R5570	1-216-864-11	SHORT CHIP	0	C8111	1-162-134-11	CERAMIC	470PF 10.00% 2KV
R5571	1-216-864-11	SHORT CHIP	0	C8112	1-164-227-11	CERAMIC CHIP	0.022UF 10.00% 25V
R5572	1-216-864-11	SHORT CHIP	0	C8113	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
R5573	1-216-864-11	SHORT CHIP	0	C8114	1-126-964-11	ELECT	10UF 20.00% 50V
R5580	1-216-864-11	SHORT CHIP	0	C8115	1-162-962-11	CERAMIC CHIP	470PF 10.00% 50V
R5582	1-216-821-11	METAL CHIP	1K 5% 1/10W	C8116	1-115-416-11	CERAMIC CHIP	0.001UF 5.00% 25V
< RESISTOR CHIP >				C8117	1-115-416-11	CERAMIC CHIP	0.001UF 5.00% 25V
RB0030	1-233-576-11	RES, CHIP NETWORK	100 (3216)	C8118	1-162-970-11	CERAMIC CHIP	0.01UF 10.00% 25V
RB0031	1-233-576-11	RES, CHIP NETWORK	100 (3216)	C8119	1-107-826-11	CERAMIC CHIP	0.1UF 10.00% 16V
RB0032	1-233-576-11	RES, CHIP NETWORK	100 (3216)				
RB0033	1-233-576-11	RES, CHIP NETWORK	100 (3216)				
RB0034	1-233-576-11	RES, CHIP NETWORK	100 (3216)				

D

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
C8120	1-117-662-31	FILM 0.18UF	5% 250V	CN8805	1-691-773-11	PLUG (MICRO CONNECTOR) 11P	
C8121	1-107-846-11	FILM 0.1UF	5.00% 400V	CN8900	* 1-564-510-11	PLUG, CONNECTOR 7P	
C8122	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V	< DIODE >			
C8124	1-164-227-11	CERAMIC CHIP 0.022UF	10.00% 25V	D8100	1-535-303-00	LEAD, JUMPER (5.0MM)	
C8125	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	D8101	8-719-110-41	DIODE RD15ESB2	
C8126	1-165-176-11	CERAMIC CHIP 0.047UF	10.00% 16V	D8102	8-719-081-97	DIODE MMDL914T1	
C8127	1-107-368-11	MYLAR 0.047UF	10.00% 200V	D8103	8-719-081-97	DIODE MMDL914T1	
C8128	1-162-968-11	CERAMIC CHIP 0.0047UF	10.00% 50V	D8104	8-719-081-97	DIODE MMDL914T1	
C8129	1-102-030-00	CERAMIC 330PF	10.00% 500V	D8105	8-719-081-97	DIODE MMDL914T1	
C8131	1-107-368-11	MYLAR 0.047UF	10.00% 200V	D8106	8-719-081-97	DIODE MMDL914T1	
C8132	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	D8107	8-719-081-97	DIODE MMDL914T1	
C8134	1-102-935-00	CERAMIC 2PF	0.25PF 50V	D8108	8-719-921-40	DIODE MTLJ-4.7C	
C8135	1-126-966-11	ELECT 33UF	20.00% 50V	D8128	8-719-081-97	DIODE MMDL914T1	
C8136	1-126-964-11	ELECT 10UF	20.00% 50V	D8132	8-719-081-97	DIODE MMDL914T1	
C8138	1-102-030-00	CERAMIC 330PF	10.00% 500V	D8133	8-719-081-97	DIODE MMDL914T1	
C8139	1-162-131-11	CERAMIC 220PF	10.00% 2KV	D8199	8-719-081-97	DIODE MMDL914T1	
C8141	1-117-836-11	FILM 6800PF	3.00% 1.5KV	D8200	8-719-302-43	DIODE EL1Z	
C8142	1-127-681-11	FILM 10000PF	2% 100V	D8201	8-719-302-43	DIODE EL1Z	
C8143	1-125-893-11	FILM 680PF	3.00% 1.5KV	D8203	8-719-085-12	DIODE BYV98-200-RAS 15/12	
C8144	1-125-893-11	FILM 680PF	3.00% 1.5KV	D8204	8-719-085-12	DIODE BYV98-200-RAS 15/12	
C8147	1-126-947-11	ELECT 47UF	20.00% 35V	D8207	8-719-991-33	DIODE 1SS133T-77	
C8148	1-117-662-31	FILM 0.18UF	5% 250V	D8208	8-719-991-33	DIODE 1SS133T-77	
C8200	1-165-441-81	ELECT 33UF	20% 160V	D8508	8-719-063-73	DIODE D1NL20U-TR	
C8201	1-107-655-11	ELECT 47UF	20.00% 250V	D8509	8-719-081-97	DIODE MMDL914T1	
C8202	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8611	8-719-081-97	DIODE MMDL914T1	
C8203	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8612	8-719-081-97	DIODE MMDL914T1	
C8204	1-102-228-00	CERAMIC 470PF	10.00% 500V	D8802	8-719-081-97	DIODE MMDL914T1	
C8205	1-126-941-11	ELECT 470UF	20.00% 25V	D8803	8-719-081-97	DIODE MMDL914T1	
C8206	1-126-941-11	ELECT 470UF	20.00% 25V	< FERRITE BEAD >			
C8207	1-126-964-11	ELECT 10UF	20.00% 50V	FB8100	1-410-397-21	FERRITE 1.1UH	
C8209	1-164-315-11	CERAMIC CHIP 470PF	5.00% 50V	< IC >			
C8210	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	IC8100	8-759-665-11	IC LM393DT	
C8529	1-164-156-11	CERAMIC CHIP 0.1UF	25V	IC8101	8-759-665-11	IC LM393DT	
C8530	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V	IC8102	8-759-638-79	IC NJM3404AD-W	
C8531	1-164-156-11	CERAMIC CHIP 0.1UF	25V	IC8103	8-759-659-67	IC LA6393DLL	
C8532	1-126-947-11	ELECT 47UF	20.00% 35V	IC8527	8-759-701-01	IC NJM2904M	
C8534	1-164-156-11	CERAMIC CHIP 0.1UF	25V	< COIL >			
C8536	1-136-497-81	FILM 0.1UF	5.00% 50V	L8101	1-406-985-11	INDUCTOR 2.2MH	
C8537	1-136-347-11	FILM 0.0047UF	5.00% 630V	L8102	1-414-928-21	INDUCTOR 1UH	
C8538	1-137-499-11	FILM 0.015UF	5.00% 630V	L8103	1-414-928-21	INDUCTOR 1UH	
C8802	1-126-960-11	ELECT 1UF	20.00% 50V	L8104	1-414-928-21	INDUCTOR 1UH	
C8803	1-126-960-11	ELECT 1UF	20.00% 50V	L8201	1-410-397-21	FERRITE 1.1UH	
C8804	1-102-114-00	CERAMIC 470PF	10.00% 50V	L8202	1-410-397-21	FERRITE 1.1UH	
C8805	1-102-114-00	CERAMIC 470PF	10.00% 50V	L8203	1-410-397-21	FERRITE 1.1UH	
< CONNECTOR >				L8503	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN8104	* 1-564-510-11	PLUG, CONNECTOR 7P		L8504	1-535-303-00	LEAD, JUMPER (5.0MM)	
CN8203	1-691-775-11	PLUG (MICRO CONNECTOR) 13P		< RESISTOR >			
CN8206	* 1-564-510-11	PLUG, CONNECTOR 7P		JR8460	1-216-864-11	SHORT CHIP 0	
CN8211	* 1-785-270-12	PIN, DY CONNECTOR (PC BOARD)		R8100	1-216-813-11	METAL CHIP 220 5% 1/10W	

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
L8569	1-406-989-21	INDUCTOR 10MH		R8105	1-216-821-11	METAL CHIP 1K 5% 1/10W	
L8576	1-406-989-21	INDUCTOR 10MH		R8106	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
< TRANSISTOR >				R8107	1-218-857-11	METAL CHIP 2.7K 0.5% 1/10W	
Q8100	8-729-010-29	TRANSISTOR MSD601-RST1		R8108	1-218-857-11	METAL CHIP 2.7K 0.5% 1/10W	
Q8101	8-729-010-29	TRANSISTOR MSD601-RST1		R8109	1-218-879-11	METAL CHIP 22K 0.5% 1/10W	
Q8102	8-729-010-29	TRANSISTOR MSD601-RST1		R8110	1-218-879-11	METAL CHIP 22K 0.5% 1/10W	
Q8103	8-729-010-29	TRANSISTOR MSD601-RST1		R8111	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8104	8-729-010-29	TRANSISTOR MSD601-RST1		R8112	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8105	8-729-010-29	TRANSISTOR MSD601-RST1		R8113	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q8106	8-729-010-29	TRANSISTOR MSD601-RST1		R8114	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q8107	8-729-010-29	TRANSISTOR MSD601-RST1		R8115	1-216-845-11	METAL CHIP 100K 5% 1/10W	
Q8108	8-729-010-05	TRANSISTOR MSB709-RT1		R8116	1-216-845-11	METAL CHIP 100K 5% 1/10W	
Q8109	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8117	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q8110	8-729-010-05	TRANSISTOR MSB709-RT1		R8118	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q8111	8-729-048-47	TRANSISTOR 2SC2688(5)-LK		R8119	1-216-833-11	METAL CHIP 10K 5% 1/10W	
Q8112	8-729-010-29	TRANSISTOR MSD601-RST1		R8120	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8113	8-729-010-29	TRANSISTOR MSD601-RST1		R8121	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8114	6-550-827-01	TRANSISTOR ST2310DHI(041Y)		R8122	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8115	8-729-010-05	TRANSISTOR MSB709-RT1		R8123	1-216-841-11	METAL CHIP 47K 5% 1/10W	
Q8116	6-550-827-01	TRANSISTOR ST2310DHI(041Y)		R8124	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q8117	8-729-050-48	TRANSISTOR IRF614-005		R8125	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8118	8-729-010-29	TRANSISTOR MSD601-RST1		R8126	1-216-815-11	METAL CHIP 330 5% 1/10W	
Q8119	8-729-010-05	TRANSISTOR MSB709-RT1		R8128	1-218-887-11	METAL CHIP 47K 0.5% 1/10W	
Q8120	8-729-010-05	TRANSISTOR MSB709-RT1		R8129	1-218-887-11	METAL CHIP 47K 0.5% 1/10W	
Q8121	6-550-721-01	TRANSISTOR 2SK2679(LBS2SONY.Q)		R8130	1-218-908-91	METAL CHIP 360K 0.5% 1/10W	
Q8122	8-729-010-05	TRANSISTOR MSB709-RT1		R8131	1-216-815-11	METAL CHIP 330 5% 1/10W	
Q8123	8-729-010-05	TRANSISTOR MSB709-RT1		R8132	1-216-815-11	METAL CHIP 330 5% 1/10W	
Q8125	8-729-010-29	TRANSISTOR MSD601-RST1		R8133	1-216-815-11	METAL CHIP 330 5% 1/10W	
Q8126	8-729-010-05	TRANSISTOR MSB709-RT1		R8135	1-243-584-21	METAL OXIDE 4.7K 5% 2W	
Q8127	8-729-010-05	TRANSISTOR MSB709-RT1		R8136	1-218-887-11	METAL CHIP 47K 0.5% 1/10W	
Q8128	8-729-010-29	TRANSISTOR MSD601-RST1		R8137	1-218-887-11	METAL CHIP 47K 0.5% 1/10W	
Q8132	8-729-421-19	TRANSISTOR UN2213		R8138	1-218-887-11	METAL CHIP 47K 0.5% 1/10W	
Q8201	8-729-010-29	TRANSISTOR MSD601-RST1		R8139	1-218-887-11	METAL CHIP 47K 0.5% 1/10W	
Q8202	8-729-010-29	TRANSISTOR MSD601-RST1		R8140	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8203	8-729-010-29	TRANSISTOR MSD601-RST1		R8141	1-243-584-21	METAL OXIDE 4.7K 5% 2W	
Q8455	8-729-010-29	TRANSISTOR MSD601-RST1		R8142	1-260-340-11	CARBON 10K 5% 1/2W	
Q8508	8-729-010-29	TRANSISTOR MSD601-RST1		R8143	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
Q8509	8-729-010-29	TRANSISTOR MSD601-RST1		R8145	1-215-895-21	METAL OXIDE 3.3K 5% 2W	
Q8510	8-729-140-93	TRANSISTOR 2SB733-34		R8146	1-260-340-11	CARBON 10K 5% 1/2W	
Q8512	8-729-053-33	TRANSISTOR IRF614-037		R8147	1-243-949-21	METAL OXIDE 0.47 5% 2W	
< RESISTOR >				R8148	1-215-880-71	METAL OXIDE 10 5% 2W	
JR8460	1-216-864-11	SHORT CHIP 0		R8149	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R8100	1-216-813-11	METAL CHIP 220 5% 1/10W		R8150	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R8101	1-216-813-11	METAL CHIP 220 5% 1/10W		R8151	1-216-361-00	METAL OXIDE 0.22 5% 2W	
R8102	1-216-825-11	METAL CHIP 2.2K 5% 1/10W		R8152	1-215-880-71	METAL OXIDE 10 5% 2W	
R8103	1-216-825-11	METAL CHIP 2.2K 5% 1/10W		R8153	1-247-807-31	CARBON 100 5% 1/4W	
R8104	1-216-825-11	METAL CHIP 2.2K 5% 1/10W		R8154	1-216-845-11	METAL CHIP 100K 5% 1/10W	
< RESISTOR >				R8155	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R8100	1-216-813-11	METAL CHIP 220 5% 1/10W		R8157	1-215-493-00	METAL 1M 1% 1/4W	
R8101	1-216-813-11	METAL CHIP 220 5% 1/10W		R8159	1-216-864-11	SHORT CHIP 0	
R8102	1-216-825-11	METAL CHIP 2.2K 5% 1/10W					
R8103	1-216-825-11	METAL CHIP 2.2K 5% 1/10W					
R8104	1-216-825-11	METAL CHIP 2.2K 5% 1/10W					

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R8160	1-216-864-11	SHORT CHIP	0	R8565	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R8161	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W	R8566	1-216-821-11	METAL CHIP	1K 5% 1/10W
R8162	1-216-821-11	METAL CHIP	1K 5% 1/10W	R8567	1-216-833-11	METAL CHIP	10K 5% 1/10W
R8163	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8568	1-216-813-11	METAL CHIP	220 5% 1/10W
R8165	1-218-889-11	METAL CHIP	56K 0.5% 1/10W	R8571	1-243-555-21	METAL OXIDE	18 5% 2W
R8166	1-247-807-31	CARBON	100 5% 1/4W	R8572	1-215-882-21	METAL OXIDE	22 5% 2W
R8167	1-215-493-00	METAL	1M 1% 1/4W	R8573	1-216-821-11	METAL CHIP	1K 5% 1/10W
R8168	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	R8574	1-216-825-11	METAL CHIP	2.2K 5% 1/10W
R8169	1-218-895-11	METAL CHIP	100K 0.5% 1/10W	R8575	1-216-817-11	METAL CHIP	470 5% 1/10W
R8170	1-216-815-11	METAL CHIP	330 5% 1/10W	R8804	1-249-408-11	CARBON	180 5% 1/4W
R8171	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8805	1-249-408-11	CARBON	180 5% 1/4W
R8174	1-216-837-11	METAL CHIP	22K 5% 1/10W	R8806	1-249-411-11	CARBON	330 5% 1/4W
R8178	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W	R8807	1-249-411-11	CARBON	330 5% 1/4W
R8179	1-216-864-11	SHORT CHIP	0	R8868	1-218-869-11	METAL CHIP	8.2K 0.5% 1/10W
R8180	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8885	1-218-895-11	METAL CHIP	100K 0.5% 1/10W
R8181	1-249-409-11	CARBON	220 5% 1/4W	R8886	1-218-875-11	METAL CHIP	15K 0.5% 1/10W
R8182	1-216-841-11	METAL CHIP	47K 5% 1/10W	< TRANSFORMER >			
R8183	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	T8100	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
R8190	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	T8101	1-433-489-31	TRANSFORMER, FERRITE (HDT)	
R8191	1-243-622-21	METAL OXIDE	22K 5% 3W	T8202	1-437-614-11	TRANSFORMER, HORIZONTAL OUTPUT	
R8196	1-249-377-11	CARBON	0.47 5% 1/4W	D Board Variant Parts KV-28FQ86			
R8201	1-260-123-11	CARBON	100K 5% 1/2W	< CAPACITOR >			
R8203	1-216-864-11	SHORT CHIP	0	C8130	1-164-230-11	CERAMIC CHIP 220PF	5.00% 50V
R8204	1-202-972-61	FUSIBLE	1 5% 1/4W	C8140	1-117-641-11	FILM 7500PF	3.00% 1.2KV
R8205	1-218-871-11	METAL CHIP	10K 0.5% 1/10W	C8145	1-117-667-11	FILM 0.47UF	5.00% 250V
R8206	1-249-443-11	CARBON	0.47 5% 1/4W	C8146	1-117-660-21	FILM 0.12UF	5.00% 250V
R8207	1-249-443-11	CARBON	0.47 5% 1/4W	< CONNECTOR >			
R8208	1-216-838-11	METAL CHIP	27K 5% 1/10W	CN8214	* 1-816-976-11	PLUG, CONNECTOR 5P	
R8209	1-216-833-11	METAL CHIP	10K 5% 1/10W	CN8215	* 1-816-977-51	PLUG, CONNECTOR 6P	
R8210	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	< RESISTORS >			
R8211	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8127	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W
R8212	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	R8144	1-243-584-21	METAL OXIDE	4.7K 5% 2W
R8215	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8156	1-215-485-00	METAL	470K 1% 1/4W
R8216	1-218-887-11	METAL CHIP	47K 0.5% 1/10W	R8176	1-218-867-11	METAL CHIP	6.8K 0.5% 1/10W
R8217	1-216-833-11	METAL CHIP	10K 5% 1/10W	R8177	1-216-830-11	METAL CHIP	5.6K 5% 1/10W
R8218	1-249-443-11	CARBON	0.47 5% 1/4W	R8222	1-216-347-11	METAL OXIDE	0.68 5% 1W
R8219	1-249-443-11	CARBON	0.47 5% 1/4W	R8570	1-243-555-21	METAL OXIDE	18 5% 2W
R8220	1-216-821-11	METAL CHIP	1K 5% 1/10W	D Board Variant Parts KV-28FQ86			
R8456	1-218-889-11	METAL CHIP	56K 0.5% 1/10W	< CAPACITOR >			
R8459	1-216-825-11	METAL CHIP	2.2K 5% 1/10W	C8130	NOT FITTED		
R8538	1-216-849-11	METAL CHIP	220K 5% 1/10W	C8140	1-117-836-11	FILM 6800PF	3.00% 1.5KV
R8539	1-216-845-11	METAL CHIP	100K 5% 1/10W	C8145	1-115-519-11	FILM 0.56UF	5.00% 250V
R8540	1-216-837-11	METAL CHIP	22K 5% 1/10W	C8146	1-107-846-11	FILM 0.1UF	5.00% 400V
R8541	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W				
R8542	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R8543	1-216-833-11	METAL CHIP	10K 5% 1/10W				
R8544	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R8545	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R8550	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W				
R8552	1-218-863-11	METAL CHIP	4.7K 0.5% 1/10W				

D

H1

C

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< CONNECTOR >				< SWITCH >			
CN8214	* 1-564-508-11	PLUG, CONNECTOR 5P		S0900	1-692-431-21	SWITCH, TACTILE	
CN8215	* 1-816-977-11	PLUG, CONNECTOR 6P		S0901	1-692-431-21	SWITCH, TACTILE	
< RESISTORS >				S0902	1-692-431-21	SWITCH, TACTILE	
R8127	1-218-865-11	METAL CHIP	5.6K 0.5% 1/10W	S0903	1-692-431-21	SWITCH, TACTILE	
R8144	1-215-895-21	METAL OXIDE	3.3K 5% 2W	S0904	1-692-431-21	SWITCH, TACTILE	
R8156	1-215-489-00	METAL	680K 1% 1/4W	S0905	1-692-431-21	SWITCH, TACTILE	
R8176	1-216-833-11	METAL CHIP	10K 5% 1/10W	* A-1405-610-A C Board Complete			
R8177	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	* 4-042-408-01	PIN, COATING LEAD		
R8222	1-216-341-11	METAL OXIDE	0.22 5% 1W	* 4-102-022-01	PIN(30), WIRE		
R8570	1-243-554-21	METAL OXIDE	15 5% 2W	4-382-854-01	SCREW (M3X8), P, SW (+)		
* A-1405-609-A H1 Board Complete				< CAPACITOR >			
< CAPACITOR >				C7300	1-136-189-00	MYLAR 0.1UF	10.00% 250V
C2904	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C7302	1-164-156-11	CERAMIC CHIP 0.1UF	25V
C2906	1-126-960-11	ELECT 1UF	20.00% 50V	C7303	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
C2907	1-126-960-11	ELECT 1UF	20.00% 50V	C7306	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
C2931	1-162-964-11	CERAMIC CHIP 0.001UF	10.00% 50V	C7310	1-136-189-00	MYLAR 0.1UF	10.00% 250V
< CONNECTOR >				C7312	1-164-156-11	CERAMIC CHIP 0.1UF	25V
CN2900	1-779-947-11	TERMINAL BLOCK, S		C7313	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
CN2911	* 1-564-511-11	PLUG, CONNECTOR 8P		C7316	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
CN2912	* 1-564-510-11	PLUG, CONNECTOR 7P		C7320	1-136-189-00	MYLAR 0.1UF	10.00% 250V
< DIODE >				C7321	1-107-652-11	ELECT 10UF	20.00% 250V
D0901	8-719-109-89	DIODE RD5.6ESB2		C7322	1-164-156-11	CERAMIC CHIP 0.1UF	25V
D0908	8-719-109-89	DIODE RD5.6ESB2		C7323	1-162-921-11	CERAMIC CHIP 33PF	5.00% 50V
< SOCKET >				C7326	1-115-416-11	CERAMIC CHIP 0.001UF	5.00% 25V
J2901	1-817-763-11	JACK		C7330	1-162-927-11	CERAMIC CHIP 100PF	5.00% 50V
< RESISTOR >				C7331	1-126-947-11	ELECT 47UF	20.00% 35V
R0901	1-216-864-11	SHORT CHIP	0	C7332	1-126-947-11	ELECT 47UF	20.00% 35V
R0902	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C7333	1-107-652-11	ELECT 10UF	20.00% 250V
R0911	1-216-829-11	METAL CHIP	4.7K 5% 1/10W	C7334	1-107-649-11	ELECT 2.2UF	20.00% 250V
R0912	1-216-864-11	SHORT CHIP	0	C7335	1-119-894-51	CERAMIC 2200PF	20.00% 250V
R0913	1-216-833-11	METAL CHIP	10K 5% 1/10W	C7336	1-115-350-51	CERAMIC 0.0047UF	2KV
R0914	1-216-833-11	METAL CHIP	10K 5% 1/10W	< CONNECTOR >			
R2901	1-249-406-11	CARBON	120 5% 1/4W	CN7330	* 1-564-508-11	PLUG, CONNECTOR 5P	
R2902	1-249-406-11	CARBON	120 5% 1/4W	CN7331	* 1-564-512-11	PLUG, CONNECTOR 9P	
R2903	1-249-406-11	CARBON	120 5% 1/4W	CN7332	1-695-915-11	TAB (CONTACT)	
R2904	1-249-406-11	CARBON	120 5% 1/4W	CN7333	1-695-915-11	TAB (CONTACT)	
R2909	1-216-853-11	METAL CHIP	470K 5% 1/10W	< DIODE >			
R2910	1-216-853-11	METAL CHIP	470K 5% 1/10W	D7300	8-719-901-83	DIODE 1SS83	
R2917	1-216-821-11	METAL CHIP	1K 5% 1/10W	D7301	8-719-901-83	DIODE 1SS83	
R2918	1-216-821-11	METAL CHIP	1K 5% 1/10W	D7302	8-719-991-33	DIODE 1SS133T-77	
				D7303	8-719-901-83	DIODE 1SS83	
				D7304	8-719-083-83	DIODE UDZS-TE17-15B	
				D7310	8-719-901-83	DIODE 1SS83	
				D7311	8-719-901-83	DIODE 1SS83	

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

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REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D7312	8-719-991-33	DIODE 1SS133T-77		R7308	1-202-557-00	SOLID 220 20% 1/2W	
D7313	8-719-901-83	DIODE 1SS83		R7310	1-216-821-11	METAL CHIP 1K 5% 1/10W	
D7314	8-719-083-83	DIODE UDZS-TE17-15B		R7311	1-216-813-11	METAL CHIP 220 5% 1/10W	
D7320	8-719-901-83	DIODE 1SS83		R7312	1-216-814-11	METAL CHIP 270 5% 1/10W	
D7321	8-719-901-83	DIODE 1SS83		R7313	1-216-813-11	METAL CHIP 220 5% 1/10W	
D7322	8-719-991-33	DIODE 1SS133T-77		R7314	1-216-813-11	METAL CHIP 220 5% 1/10W	
D7323	8-719-901-83	DIODE 1SS83		R7316	1-216-864-11	SHORT CHIP 0	
D7324	8-719-083-83	DIODE UDZS-TE17-15B		R7317	1-247-807-31	CARBON 100 5% 1/4W	
D7330	8-719-109-68	DIODE RD3.6ESB1		R7318	1-202-557-00	SOLID 220 20% 1/2W	
D7331	8-719-901-83	DIODE 1SS83		R7320	1-216-821-11	METAL CHIP 1K 5% 1/10W	
< IC >				R7321	1-216-813-11	METAL CHIP 220 5% 1/10W	
IC7300	6-704-806-01	IC TDA6118JF		R7322	1-216-814-11	METAL CHIP 270 5% 1/10W	
IC7310	6-704-806-01	IC TDA6118JF		R7323	1-216-813-11	METAL CHIP 220 5% 1/10W	
IC7320	6-704-806-01	IC TDA6118JF		R7324	1-216-813-11	METAL CHIP 220 5% 1/10W	
< SOCKET >				R7326	1-216-864-11	SHORT CHIP 0	
J7330	Δ 1-451-544-11	SOCKET, CRT		R7327	1-247-807-31	CARBON 100 5% 1/4W	
< COIL >				R7328	1-202-557-00	SOLID 220 20% 1/2W	
L7330	1-414-928-21	INDUCTOR 1UH		R7330	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
L7331	1-414-928-21	INDUCTOR 1UH		R7331	1-247-903-00	CARBON 1M 5% 1/4W	
< PROTECTOR MODULE >				R7333	1-249-417-11	CARBON 1K 5% 1/4W	
PS7332	Δ 1-532-637-00	IC LINK 1A 50V		R7334	1-249-417-11	CARBON 1K 5% 1/4W	
< TRANSISTOR >				R7335	1-247-735-11	CARBON 47 5% 1/2W	
Q7300	8-729-025-25	TRANSISTOR BF550		R7336	1-202-549-00	SOLID 100 20% 1/2W	
Q7301	8-729-010-29	TRANSISTOR MSD601-RST1		R7337	1-202-549-00	SOLID 100 20% 1/2W	
Q7302	8-729-200-17	TRANSISTOR 2SA1091-0		R7340	1-216-826-11	METAL CHIP 2.7K 5% 1/10W	
Q7310	8-729-025-25	TRANSISTOR BF550		R7350	1-216-826-11	METAL CHIP 2.7K 5% 1/10W	
Q7311	8-729-010-29	TRANSISTOR MSD601-RST1		R7360	1-216-826-11	METAL CHIP 2.7K 5% 1/10W	
Q7312	8-729-200-17	TRANSISTOR 2SA1091-0		R7361	1-216-821-11	METAL CHIP 1K 5% 1/10W	
Q7320	8-729-025-25	TRANSISTOR BF550		< RESISTOR VARIABLE >			
Q7321	8-729-010-29	TRANSISTOR MSD601-RST1		RV7330	1-241-656-11	RES, ADJ, METAL FILM 110M	
Q7322	8-729-200-17	TRANSISTOR 2SA1091-0		* A-1405-611-A F1 Board Complete			
Q7330	8-729-010-05	TRANSISTOR MSB709-RT1		4-206-220-01	HOLDER, LED		
< RESISTOR >				< CAPACITOR >			
JR7303	1-216-864-11	SHORT CHIP 0		C0982	1-104-665-11	ELECT 100UF 20.00% 25V	
JR7313	1-216-864-11	SHORT CHIP 0		C0983	1-102-114-00	CERAMIC 470PF 10.00% 50V	
JR7323	1-216-864-11	SHORT CHIP 0		C0984	1-102-129-00	CERAMIC 0.01UF 10.00% 50V	
R7300	1-216-821-11	METAL CHIP 1K 5% 1/10W		C6400	1-113-924-11	CERAMIC 0.0047UF 20.00% 250V	
R7301	1-216-813-11	METAL CHIP 220 5% 1/10W		< CONNECTOR >			
R7302	1-216-814-11	METAL CHIP 270 5% 1/10W		CN0981	* 1-564-507-11	PLUG, CONNECTOR 4P	
R7303	1-216-813-11	METAL CHIP 220 5% 1/10W		CN6400	Δ * 1-580-843-11	PIN, CONNECTOR (POWER)	
R7304	1-216-813-11	METAL CHIP 220 5% 1/10W		CN6401	Δ * 1-691-291-11	PIN, CONNECTOR (PC BOARD) 5P	
R7306	1-216-864-11	SHORT CHIP 0		CN6403	1-695-915-11	TAB (CONTACT)	
R7307	1-247-807-31	CARBON 100 5% 1/4W		< DIODE >			
				D0981	8-719-109-89	DIODE RD5.6ESB2	
				D0983	8-719-082-12	DIODE TLHK5190	

Note : The components identified by shading and marked Δ are critical for safety. Replace only with the part numbers specified in the parts list.

F1 J

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
< FUSE >				C2655	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
F6400	Δ 1-576-232-12	FUSE 5A 250V		C2656	1-165-908-11	CERAMIC CHIP 1UF 10% 10V	
FH6400	Δ 1-533-725-11	FUSE HOLDER 0A 0V		C2657	1-162-923-11	CERAMIC CHIP 47PF 5.00% 50V	
< IC >				C2658	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
IC0981	6-704-532-01	IC RPM7240-H5		C2659	1-126-964-11	ELECT 10UF 20.00% 50V	
< RESISTOR >				C2660	1-126-947-11	ELECT 47UF 20.00% 35V	
R0982	1-247-807-31	CARBON 100 5% 1/4W		C3608	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
R6400	Δ 1-202-719-00	SOLID 1M 10% 1/2W		C3609	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
< SWITCH >				C3610	1-126-947-11	ELECT 47UF 20.00% 35V	
S6400	Δ 1-571-433-21	SWITCH, PUSH (AC POWER)		C3616	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
< VARISTOR >				C3617	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
VD6400	Δ 1-804-995-11	VARISTOR		C3618	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
* A-1405-623-A J Board Complete				C3619	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
< CAPACITOR >				C3620	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C2604	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V		C3621	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2605	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V		C3622	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2606	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V		C3623	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C2607	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V		C3624	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2608	1-165-908-11	CERAMIC CHIP 1UF 10% 10V		C3625	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C2609	1-165-908-11	CERAMIC CHIP 1UF 10% 10V		C3626	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2610	1-126-947-11	ELECT 47UF 20.00% 35V		C3627	1-126-964-11	ELECT 10UF 20.00% 50V	
C2611	1-126-947-11	ELECT 47UF 20.00% 35V		C3631	1-107-826-11	CERAMIC CHIP 0.1UF 10.00% 16V	
C2612	1-125-837-91	CERAMIC CHIP 1UF 10% 6.3V		C3632	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2613	1-125-837-91	CERAMIC CHIP 1UF 10% 6.3V		C3634	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2614	1-164-156-11	CERAMIC CHIP 0.1UF 25V		C3636	1-126-947-11	ELECT 47UF 20.00% 35V	
C2615	1-164-156-11	CERAMIC CHIP 0.1UF 25V		C3641	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2620	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V		C3642	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2621	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V		C3643	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2622	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V		C3644	1-164-156-11	CERAMIC CHIP 0.1UF 25V	
C2623	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V		C3645	1-126-947-11	ELECT 47UF 20.00% 35V	
C2624	1-165-908-11	CERAMIC CHIP 1UF 10% 10V		C3646	1-126-947-11	ELECT 47UF 20.00% 35V	
C2625	1-165-908-11	CERAMIC CHIP 1UF 10% 10V		C3647	1-126-947-11	ELECT 47UF 20.00% 35V	
C2626	1-126-947-11	ELECT 47UF 20.00% 35V		C3648	1-126-947-11	ELECT 47UF 20.00% 35V	
C2627	1-126-947-11	ELECT 47UF 20.00% 35V		C3649	1-162-915-11	CERAMIC CHIP 10PF 0.50PF 50V	
C2632	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V		< CONNECTOR >			
C2633	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V		CN3600	* 1-564-523-11	PLUG, CONNECTOR 8P	
C2634	1-164-227-11	CERAMIC CHIP 0.022UF 10.00% 25V		CN3601	1-695-549-11	SOCKET, PIN 21P	
C2635	1-162-964-11	CERAMIC CHIP 0.001UF 10.00% 50V		CN3602	1-695-549-11	SOCKET, PIN 21P	
C2636	1-165-908-11	CERAMIC CHIP 1UF 10% 10V		CN3603	1-695-549-11	SOCKET, PIN 21P	
C2637	1-165-908-11	CERAMIC CHIP 1UF 10% 10V		CN3604	1-817-114-11	CONNECTOR, BOARD TO BOARD 35P	
C2638	1-126-947-11	ELECT 47UF 20.00% 35V		< DIODE >			
C2639	1-126-947-11	ELECT 47UF 20.00% 35V		D0600	8-719-069-55	DIODE UDZSTE-175.6B	
				D2600	8-719-069-60	DIODE UDZSTE-179.1B	
				D2601	8-719-069-60	DIODE UDZSTE-179.1B	
				D2602	8-719-069-60	DIODE UDZSTE-179.1B	
				D2603	8-719-069-60	DIODE UDZSTE-179.1B	
				D2604	8-719-069-60	DIODE UDZSTE-179.1B	
				D2605	8-719-069-60	DIODE UDZSTE-179.1B	

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
D2606	8-719-069-60	DIODE UDZSTE-179.1B		< RESISTOR >			
D2607	8-719-069-60	DIODE UDZSTE-179.1B		JR2616	1-216-864-11	SHORT CHIP	0
D2608	8-719-069-60	DIODE UDZSTE-179.1B		JR2617	1-216-864-11	SHORT CHIP	0
D2609	8-719-069-60	DIODE UDZSTE-179.1B		JR2618	1-216-864-11	SHORT CHIP	0
D2610	8-719-069-60	DIODE UDZSTE-179.1B		JR2628	1-216-864-11	SHORT CHIP	0
				JR3611	1-216-864-11	SHORT CHIP	0
D2611	8-719-069-60	DIODE UDZSTE-179.1B		R0800	1-216-809-11	METAL CHIP	100 5% 1/10W
D3602	8-719-069-60	DIODE UDZSTE-179.1B		R0801	1-216-809-11	METAL CHIP	100 5% 1/10W
D3606	8-719-069-60	DIODE UDZSTE-179.1B		R0802	1-216-025-11	RES-CHIP	100 5% 1/10W
D3614	8-719-083-63	DIODE UDZSTE-1713B		R2600	1-216-815-11	METAL CHIP	330 5% 1/10W
D3615	8-719-069-60	DIODE UDZSTE-179.1B		R2601	1-216-049-11	RES-CHIP	1K 5% 1/10W
D3616	8-719-069-60	DIODE UDZSTE-179.1B		R2602	1-216-815-11	METAL CHIP	330 5% 1/10W
D3617	8-719-069-60	DIODE UDZSTE-179.1B		R2603	1-216-049-11	RES-CHIP	1K 5% 1/10W
D3621	8-719-083-63	DIODE UDZSTE-1713B		R2604	1-216-813-11	METAL CHIP	220 5% 1/10W
D3622	8-719-069-55	DIODE UDZSTE-175.6B		R2605	1-216-864-11	SHORT CHIP	0
D3623	8-719-069-60	DIODE UDZSTE-179.1B		R2606	1-216-813-11	METAL CHIP	220 5% 1/10W
D3624	8-719-069-60	DIODE UDZSTE-179.1B		R2607	1-216-864-11	SHORT CHIP	0
D3626	8-719-069-60	DIODE UDZSTE-179.1B		R2608	1-216-853-11	METAL CHIP	470K 5% 1/10W
D3627	8-719-083-63	DIODE UDZSTE-1713B		R2609	1-216-853-11	METAL CHIP	470K 5% 1/10W
D3628	8-719-083-63	DIODE UDZSTE-1713B		R2610	1-216-853-11	METAL CHIP	470K 5% 1/10W
D3629	8-719-069-60	DIODE UDZSTE-179.1B		R2611	1-216-853-11	METAL CHIP	470K 5% 1/10W
D3630	8-719-069-60	DIODE UDZSTE-179.1B		R2612	1-216-813-11	METAL CHIP	220 5% 1/10W
D3631	8-719-069-55	DIODE UDZSTE-175.6B		R2613	1-216-813-11	METAL CHIP	220 5% 1/10W
D3632	8-719-069-60	DIODE UDZSTE-179.1B		R2614	1-216-864-11	SHORT CHIP	0
D3633	8-719-069-60	DIODE UDZSTE-179.1B		R2615	1-216-864-11	SHORT CHIP	0
D3634	8-719-069-60	DIODE UDZSTE-179.1B		R2616	1-216-864-11	SHORT CHIP	0
D3635	8-719-069-60	DIODE UDZSTE-179.1B		R2617	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R2618	1-216-864-11	SHORT CHIP	0
				R2619	1-216-821-11	METAL CHIP	1K 5% 1/10W
				R2620	1-216-837-11	METAL CHIP	22K 5% 1/10W
				R2621	1-216-837-11	METAL CHIP	22K 5% 1/10W
				R2622	1-216-837-11	METAL CHIP	22K 5% 1/10W
				R2623	1-216-837-11	METAL CHIP	22K 5% 1/10W
				R2624	1-216-815-11	METAL CHIP	330 5% 1/10W
				R2625	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R2626	1-216-815-11	METAL CHIP	330 5% 1/10W
				R2627	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R2628	1-216-864-11	SHORT CHIP	0
				R2630	1-216-864-11	SHORT CHIP	0
				R2632	1-216-853-11	METAL CHIP	470K 5% 1/10W
				R2633	1-216-853-11	METAL CHIP	470K 5% 1/10W
				R2634	1-216-853-11	METAL CHIP	470K 5% 1/10W
				R2635	1-216-853-11	METAL CHIP	470K 5% 1/10W
				R2636	1-216-815-11	METAL CHIP	330 5% 1/10W
				R2637	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R2638	1-216-815-11	METAL CHIP	330 5% 1/10W
				R2639	1-216-049-11	RES-CHIP	1K 5% 1/10W
				R2640	1-216-813-11	METAL CHIP	220 5% 1/10W
				R2642	1-216-813-11	METAL CHIP	220 5% 1/10W

< FERRITE BEAD >

FB3611 1-414-760-21 FERRITE 0UH

< IC >

IC3600 8-752-096-83 IC CXA2149AQ-TL

< COIL >

L2602 1-414-928-21 INDUCTOR 1UH
 L3611 1-414-928-21 INDUCTOR 1UH
 L3612 1-414-928-21 INDUCTOR 1UH
 L3614 1-414-928-21 INDUCTOR 1UH

< TRANSISTOR >

Q2602 8-729-010-29 TRANSISTOR MSD601-RST1
 Q2603 8-729-010-29 TRANSISTOR MSD601-RST1
 Q2604 8-729-010-29 TRANSISTOR MSD601-RST1
 Q3656 8-729-010-29 TRANSISTOR MSD601-RST1
 Q3657 8-729-010-29 TRANSISTOR MSD601-RST1
 Q3658 8-729-010-29 TRANSISTOR MSD601-RST1

REF.NO.	PART.NO	DESCRIPTION	REMARK	REF.NO.	PART.NO	DESCRIPTION	REMARK
R2644	1-216-853-11	METAL CHIP	470K 5% 1/10W	R3655	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2645	1-216-853-11	METAL CHIP	470K 5% 1/10W	R3656	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2646	1-216-853-11	METAL CHIP	470K 5% 1/10W	R3657	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2647	1-216-853-11	METAL CHIP	470K 5% 1/10W	R3658	1-216-837-11	METAL CHIP	22K 5% 1/10W
R2648	1-216-821-11	METAL CHIP	1K 5% 1/10W	R3659	1-216-821-11	METAL CHIP	1K 5% 1/10W
R2649	1-216-837-11	METAL CHIP	22K 5% 1/10W	R3660	1-216-841-11	METAL CHIP	47K 5% 1/10W
R2650	1-216-837-11	METAL CHIP	22K 5% 1/10W	R3661	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R3600	1-216-022-00	RES-CHIP	75 5% 1/10W	R3662	1-216-827-11	METAL CHIP	3.3K 5% 1/10W
R3601	1-216-022-00	RES-CHIP	75 5% 1/10W	R3663	1-216-805-11	METAL CHIP	47 5% 1/10W
R3602	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3603	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3604	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3605	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3607	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3608	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3609	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3610	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3611	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3612	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3613	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3614	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3615	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3616	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3617	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3618	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3619	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3621	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3622	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3623	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3624	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3625	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3626	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3627	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3628	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3629	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3630	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3631	1-216-809-11	METAL CHIP	100 5% 1/10W				
R3632	1-216-809-11	METAL CHIP	100 5% 1/10W				
R3634	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3635	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3636	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3637	1-216-022-00	RES-CHIP	75 5% 1/10W				
R3638	1-216-025-11	RES-CHIP	100 5% 1/10W				
R3639	1-216-843-11	METAL CHIP	68K 5% 1/10W				
R3641	1-216-843-11	METAL CHIP	68K 5% 1/10W				
R3643	1-218-885-11	METAL CHIP	39K 0.5% 1/10W				
R3647	1-216-864-11	SHORT CHIP	0				
R3652	1-216-821-11	METAL CHIP	1K 5% 1/10W				
R3653	1-216-841-11	METAL CHIP	47K 5% 1/10W				
R3654	1-216-837-11	METAL CHIP	22K 5% 1/10W				

* A-1405-620-A VM Board Complete

4-382-854-01 SCREW (M3X8), P, SW (+)

< CAPACITOR >

C9401 1-126-947-11 ELECT 47UF 20.00% 35V
 C9402 1-164-156-11 CERAMIC CHIP 0.1UF 25V
 C9403 1-107-826-11 CERAMIC CHIP 0.1UF 10.00% 16V
 C9404 1-107-636-11 ELECT 10UF 20.00% 160V
 C9406 1-161-830-00 CERAMIC 0.0047UF 500V
 C9407 1-164-156-11 CERAMIC CHIP 0.1UF 25V
 C9408 1-126-964-11 ELECT 10UF 20.00% 50V
 C9409 1-107-636-11 ELECT 10UF 20.00% 160V
 C9410 1-137-528-11 MYLAR 0.1UF 10.00% 250V
 C9411 1-107-826-11 CERAMIC CHIP 0.1UF 10.00% 16V
 C9412 1-137-528-11 MYLAR 0.1UF 10.00% 250V
 C9413 1-107-826-11 CERAMIC CHIP 0.1UF 10.00% 16V
 C9414 1-117-450-11 MYLAR 0.47UF 10.00% 250V

< CONNECTOR >

CN9401 * 1-564-510-11 PLUG, CONNECTOR 7P
 CN9402 * 1-564-506-11 PLUG, CONNECTOR 3P
 CN9403 * 1-770-723-11 CONNECTOR, BOARD TO BOARD 8P

< COIL >

L9401 1-414-928-21 INDUCTOR 1UH
 L9402 1-414-928-21 INDUCTOR 1UH

< TRANSISTOR >

Q9401 8-729-010-29 TRANSISTOR MSD601-RST1
 Q9402 8-729-010-29 TRANSISTOR MSD601-RST1
 Q9403 8-729-010-29 TRANSISTOR MSD601-RST1
 Q9404 8-729-010-05 TRANSISTOR MSB709-RT1
 Q9405 8-729-010-29 TRANSISTOR MSD601-RST1
 Q9406 8-729-010-05 TRANSISTOR MSB709-RT1
 Q9407 8-729-010-29 TRANSISTOR MSD601-RST1
 Q9408 8-729-010-05 TRANSISTOR MSB709-RT1
 Q9409 8-729-010-29 TRANSISTOR MSD601-RST1
 Q9410 8-729-010-05 TRANSISTOR MSB709-RT1
 Q9411 8-729-045-05 TRANSISTOR 2SA2005

REF.NO.	PART.NO	DESCRIPTION	REMARK
Q9412	8-729-045-04	TRANSISTOR 2SC5511	
Q9413	8-729-010-29	TRANSISTOR MSD601-RST1	
Q9414	8-729-010-05	TRANSISTOR MSB709-RT1	
< RESISTOR >			
R9401	1-249-381-11	CARBON	1 5% 1/4W
R9402	1-216-820-11	METAL CHIP	820 5% 1/10W
R9403	1-216-819-11	METAL CHIP	680 5% 1/10W
R9404	1-216-834-11	METAL CHIP	12K 5% 1/10W
R9405	1-216-839-11	METAL CHIP	33K 5% 1/10W
R9406	1-216-805-11	METAL CHIP	47 5% 1/10W
R9408	1-216-815-11	METAL CHIP	330 5% 1/10W
R9409	1-216-805-11	METAL CHIP	47 5% 1/10W
R9410	1-216-805-11	METAL CHIP	47 5% 1/10W
R9411	1-249-393-11	CARBON	10 5% 1/4W
R9412	1-249-393-11	CARBON	10 5% 1/4W
R9413	1-249-393-11	CARBON	10 5% 1/4W
R9414	1-249-393-11	CARBON	10 5% 1/4W
R9415	1-249-393-11	CARBON	10 5% 1/4W
R9416	1-249-393-11	CARBON	10 5% 1/4W
R9417	1-249-393-11	CARBON	10 5% 1/4W
R9418	1-249-393-11	CARBON	10 5% 1/4W
R9419	1-216-839-11	METAL CHIP	33K 5% 1/10W
R9420	1-216-821-11	METAL CHIP	1K 5% 1/10W
R9421	1-216-801-11	METAL CHIP	22 5% 1/10W
R9422	1-216-801-11	METAL CHIP	22 5% 1/10W
R9423	1-216-821-11	METAL CHIP	1K 5% 1/10W
R9424	1-216-839-11	METAL CHIP	33K 5% 1/10W
R9425	1-243-572-21	METAL OXIDE	470 5% 2W
R9426	1-216-839-11	METAL CHIP	33K 5% 1/10W
R9427	1-216-839-11	METAL CHIP	33K 5% 1/10W
R9429	1-216-821-11	METAL CHIP	1K 5% 1/10W
R9430	1-216-809-11	METAL CHIP	100 5% 1/10W
R9431	1-216-809-11	METAL CHIP	100 5% 1/10W
R9432	1-216-817-11	METAL CHIP	470 5% 1/10W
R9433	1-216-817-11	METAL CHIP	470 5% 1/10W

REF.NO.	PART.NO	DESCRIPTION	REMARK
MISCELLANEOUS			
△	1-571-433-21	SWITCH, PUSH (AC POWER)	
	1-456-510-11	COIL, CHOKE 48.5MMH	
△	1-783-083-11	CORD, POWER (WITH FILTER)	
	8-598-529-10	FRONTEND BTF-EU611 (KV-32FQ86U)	
	8-598-533-10	FRONTEND BTF-EC411 (KV-28FQ86E, KV-32FQ86E/K)	
	8-598-535-20	FRONTEND BTF-EF411 (KV-28FQ86B, KV-32FQ86B)	
△	1-453-378-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z214) (KV-28FQ86)	
△	1-453-444-21	TRANSFORMER ASSY, FLYBACK (NX-6020//Z2B4) (KV-32FQ86)	
	1-529-408-11	SPEAKER (4.2X24CM)	
	1-529-417-11	SPEAKER (8CM)	
△	8-451-521-31	DEFLECTION YOKE (Y28RVC3-L2) (KV-28FQ86)	
△	1-451-480-22	DEFLECTION YOKE (Y32RVC2) (KV-32FQ86)	
△	8-453-011-11	NECK ASSY, (NA299-M)	
	1-419-363-11	COIL, NA ROTATION	
△	1-424-886-11	COIL, DEGAUSSING (KV-28FQ86)	
△	1-424-888-11	COIL, DEGAUSSING (KV-32FQ86)	
△	1-251-946-11	CAP ASSY, HIGH-VOLTAGE (KV-32FQ86)	
△	1-251-946-21	CAP ASSY, HIGH-VOLTAGE (KV-28FQ86)	
△	8-735-079-05	PICTURE TUBE (W76LLX060X) (KV-32FQ86)	
△	8-735-099-05	PICTURE TUBE (W66LLX060X) (KV-28FQ86)	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
	1-425-032-00	MAGNET, DISK; 10MM Ø	
ACCESSORIES AND PACKAGING MATERIALS			
	*4-094-270-02	CUSHION UPPER KV-32FQ86B/E/K/U	
	*4-094-271-02	CUSHION LOWER KV-32FQ86B/E/K/U	
	*4-087-594-01	INDIVIDUAL CARTON KV-32FQ86B/E/K/U	
	*4-103-183-01	INDIVIDUAL CARTON KV-28FQ86B/E	
	4-046-772-01	BAG PROTECTION KV-32FQ86B/E/K/U	
	4-029-168-01	BAG PROTECTION KV-28FQ86B/E	
	4-103-124-11	INSTRUCTION MANUAL (GERMAN/TURKISH/GREEK) KV-28/32FQ86E	
	4-103-124-21	INSTRUCTION MANUAL (ITALIAN) KV-28/32FQ86E	
	4-103-124-31	INSTRUCTION MANUAL (NORWEGIAN/PORTUGUESE/SWEDISH/FINNISH/DANISH/SPANISH) KV-28/32FQ86E	
	4-103-124-41	INSTRUCTION MANUAL (GERMAN/ITALIAN/FRENCH/DUTCH) KV-28/32FQ86B	
	4-103-124-51	INSTRUCTION MANUAL (ENGLISH) KV-32FQ86B	
	4-103-124-61	INSTRUCTION MANUAL (BULGARIAN/CZECH/ENGLISH/HUNGARIAN/RUSSIAN/POLISH) KV-32FQ86K	
	4-103-124-71	INSTRUCTION MANUAL (ENGLISH) KV-32FQ86U	
REMOTE COMMANDER			
	1-478-639-11	REMOTE COMMANDER (RM-945)	

TRACE

A new TV Repair Assistance Tool that combines ease of use and powerful PC software tools to allow you to save valuable time during many TV repairs.



The TRACE interface connects to the PC's serial port. It provides connection to the TV's I²C bus and can be provided with an InfraRed transmitter (optional).

The interface is powered by a standard 9 V PP3 battery for portable use, and can also be powered by an external 9V/25mA DC power supply.

The TRACE software that is supplied with the interface allows you to:

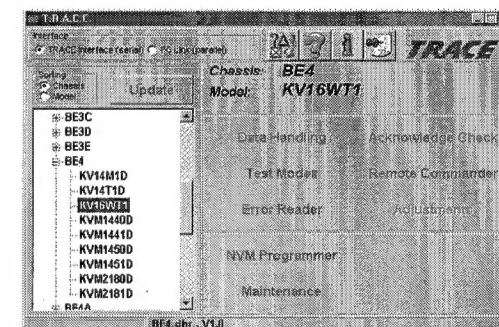
- Read, restore and compare NVM contents via the I²C bus
- Acknowledge check of all I²C devices in the TV set
- Read Error Codes (emulation of the Error Reader tool)

With the optional IR Add-on kit, the following features can be added:

- Remote Commander emulation
- User programmable Functional Check through Infrared
- Fast and documented Test Mode setting of all Sony TV chassis

Additional features such as Adjustments and Troubleshooting are available in chassis-dependent software modules. Please contact your local Sony Service organisation for the latest information.

Note: For workshops already using the existing I²C Link parallel port interface (9-948-320-30), this software can be used as well, replacing the TV Data Handling software (9-948-340-50), but Error Reader and IR functions can only be accessed with the TRACE interface.



Partnumbers: TRACE Starter Kit (TRACE interface + software): 9-948-320-70
TRACE Software (for users of the I²C Link interface): 9-948-340-80
TRACE IR Add-on (IR interface + Remote Commander software): 9-948-320-80

PC requirements: IBM-compatible PC with operating system Windows95, Windows98, or WindowsNT*.

* WindowsNT only supported with TRACE interface

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